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Performance of COMMERCIAL CORN HYBRIDS in Illinois, 1960

By Earl R. Leng
G. L. Ross



Location
of 1960
test fields

BULLETIN 668
UNIVERSITY OF ILLINOIS
AGRICULTURAL EXPERIMENT STATION

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PERFORMANCE OF COMMERCIAL CORN HYBRIDS IN ILLINOIS, 1960

By EARL R. LENG and G. L. ROSS¹

A BUMPER 1960 CORN CROP of almost 697 million bushels was estimated for Illinois — 3 percent above the previous peak production established in 1959. The average yield of 68 bushels per acre was 1 bushel below the all-time high yield of 69 bushels established in 1958. The crop generally appeared to be of excellent quality although intermittent showers and damp weather slowed drying. Very little of the late corn was damaged by frost.²

PLAN OF THE TESTS

Number of hybrids and their sources. In 1960, 425 hybrids were grown in 13 major tests at ten locations in the state. Fifty-six companies and individuals, as well as the Illinois Agricultural Experiment Station, furnished seed for the tests.

Test fields were located at the same places as in 1957, 1958, and 1959. General information on the tests is summarized in Table 1.

Representatives of the Illinois Station collected seed for planting the test fields. Seed was obtained directly from warehouses or seed supplies of the producers entering the respective hybrids. Seed of certain open-pedigreed hybrids was furnished by the Illinois Station.

Selection of entries. Each year producers of hybrid seed corn are given an opportunity to nominate hybrids for testing in the various performance trials. A fee is charged for testing the hybrids nominated. For the past several years, all hybrids nominated by the closing date for entries have been accepted and tested in the performance test plots.

Occasionally experimental hybrids are nominated by commercial seed firms for inclusion in the performance testing program. These have been accepted and tested in the same manner as commercially available hybrids. Experimental hybrids and standard open-pedigree hybrids produced by the Illinois Station also are included in certain of the tests. The performance of additional experimental hybrids in 1960 and preceding years is reported in Illinois Bulletin 669.

¹ EARL R. LENG, Professor of Agronomy; G. L. ROSS, Crops Testing Technician.

² Estimates of yield for the state were furnished by the Illinois Cooperative Crop Reporting Service, Illinois State Department of Agriculture, cooperating with the U. S. Department of Agriculture.

Table 1.—GENERAL INFORMATION: Illinois Commercial Hybrid Corn Tests, 1960

Field, county, location, and number of entries	Date planted	Date harvested	Average acre yield	Moisture in grain	Erect plants	Stand
Regular planting rate			<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Woodstock: McHenry, Ex. N, 72	May 15	Oct. 29	81.2	23.4	90.9	92.1
DeKalb: DeKalb, N, 100	May 24	Nov. 4	104.8	27.1	91.8	91.7
Galesburg: Knox, WNC, 132	June 1	Oct. 27-28	106.6	26.5	90.6	90.1
Ashkum: Iroquois, ENC, 90	May 31	Nov. 15	74.6	22.5	89.8	89.4
Bowen: Hancock, WC, 72	June 1	Oct. 25	94.1	22.3	91.3	88.4
Stanford: McLean, C, 100	May 12	Oct. 6	112.7	22.1	97.0	94.2
Urbana: Champaign, EC, 121	May 18	Nov. 14	106.5	19.9	91.6	94.3
Greenfield: Macoupin, WSC, 72	June 2	Oct. 22	85.6	22.6	92.5	86.9
Brownstown: Fayette, S, 72	June 9	Nov. 19	Field was discarded			
Wolf Lake: Union, Ex. S, 64	May 10	Oct. 4	76.0	19.3	94.6	86.2
Increased planting rate						
DeKalb: DeKalb, N, 56	May 24	Nov. 4	103.2	29.2	88.2	88.2
Urbana: Champaign, EC, 64	May 18	Nov. 14	93.3	20.2	78.0	91.4
Greenfield: Macoupin, WSC, 42	June 2	Oct. 22	87.4	22.7	94.7	81.1

COOPERATORS: EARL HUGHES, *McHenry county*; RALPH ANDERSON, *Knox county*; MELVIN KRAFT, *Iroquois county*; ELDON GOLDEN, *Hancock county*; ROBERT BUTH, *McLean county*; CHARLES ROSS, *Macoupin county*; EARL SCHWARM, *Fayette county*; SHAWNEE HIGH SCHOOL, *Union county*. Tests in DeKalb and Champaign counties were located on University of Illinois farms managed by R. E. BELL and C. H. FARNHAM. P. E. JOHNSON, Assistant Professor of Soil Fertility, supervised field operations on the test in *Fayette county*, and D. R. BROWNING supervised field operations on the *Union county* test field.

Soil characteristics of fields. The test fields usually are medium to high in productivity, and each is chosen to represent a soil type common to the region where it is located. Insofar as possible, each field is selected for uniformity in soil type, productivity, and drainage. Approximate locations of test fields are shown on the map on the cover. Soil characteristics and management are described in Table 2.

Field-plot design. The experimental designs used were randomized blocks, or lattice designs of the appropriate size, with three replications each. Data were recorded on mark-sense cards and were processed by a combination of procedures on IBM equipment.

Method of planting. All test fields were planted by machine on land prepared in the normal way for corn. All test plots except those at DeKalb, Urbana, and Brownstown were part of larger cornfields and were surrounded by farmers' corn. Individual plots consisted of one row, 11 hill-spaces long. Planting simulated "power checking," with one, two, or three kernels being dropped each 20 inches, depending on the planting rate desired. A planting rate of 14,000 plants per acre was used at Brownstown. At Woodstock, Wolf Lake, Ashkum, Bowen, and Stanford and in the "regular rate" tests at DeKalb, Urbana, and Greenfield the planting rate was 16,000 plants per acre. Galesburg was planted at 18,000 plants per acre. For the "increased planting rate"

tests, the rates were 24,000 per acre at DeKalb and Urbana, and 20,000 at Greenfield. The plots were not thinned.

Method of harvest. All plots were mechanically harvested with a slightly modified Ford one-row picker-sheller. The shelled corn from each plot was collected in a bag, weighed, and sampled for moisture percentage. No attempt was made to glean missed or dropped ears or to estimate the shelled corn lost in the harvesting operations.

GROWING CONDITIONS

The 1960 growing season was exceptionally favorable throughout the state, except that excessive moisture delayed planting in some

Table 2.—TEST FIELDS: Soil Characteristics, Management Practices, and Rainfall in 1960

Soil type	Lime require- ment	Available phosphorus	Available potassium	Previous crops and rainfall
Extreme Northern: Woodstock				
Proctor silt loam	0	High	High	Corn 1959; alfalfa 1958; alfalfa 1957. Rainfall (inches): May 5.6; June 3.9; July 3.0; August 2.3.
Northern: DeKalb				
Flanagan silt loam	0	Medium	High	Clover 1959; oats and clover 1958; corn 1957. Rainfall (inches): May 6.2; June 4.1; July 4.8; August 3.0.
West North-Central: Galesburg				
Sable silty clay loam	2	Medium	High	Alfalfa 1959; alfalfa 1958; oats 1957. Rainfall (inches): May 6.1; June 5.8; July 2.2; August 5.4.
East North-Central: Ashkum				
Milford clay loam	2	Medium	High	Clover 1959; oats and clover 1958; soybeans 1957. Rainfall (inches): May 3.1; June 5.0; July 1.1; August 5.1.
West-Central: Bowen				
Viriden silty clay loam	0	High	High	Corn 1959; alfalfa 1958; alfalfa 1957. Rainfall (inches): May 6.8; June 8.6; July 3.7; August 5.0.
Central: Stanford				
Muscataine silt loam	0	Medium	High	Alfalfa 1959; Alfalfa 1958; alfalfa 1957. Rainfall (inches): May 3.6; June 8.3; July 4.8; August 2.2.
East-Central: Urbana				
Brenton silt loam	0	Medium	Low	Corn 1959; alfalfa 1958; alfalfa 1957. Rainfall (inches): May 4.1; June 6.2; July 2.8; August 1.3.
West South-Central: Greenfield				
Herrick silt loam	2	Medium	High	Corn 1959; wheat 1958; soybeans 1957. Rainfall (inches): May 4.1; June 4.2; July 3.1; August 2.1.
Southern: Brownstown				
Cisne silt loam	0	Medium	Low	Oats and clover 1959; corn 1958; oats and clover 1957. Rainfall (inches): May 5.9; June 7.2; July 1.8; August 2.2.
Extreme Southern: Wolf Lake				
Riley fine sandy loam	0	High	High	Corn 1959; corn 1958; corn 1957. Rainfall (inches): May 3.9; June 3.5; July 2.8; August 4.6.

localities and spread the planting operations over about 4 weeks. On some fields the planting was halted because of heavy rains, and the last planting was not finished until the second week in June. Immediately following the planting at Brownstown and Galesburg, more than 2 inches of rainfall packed the seedbeds and materially reduced the stands. Moisture and temperature conditions were generally favorable for the entire state from June through August. The Ashkum field suffered a little from the drouth that prevailed in that area. August was a warm humid month throughout the state, favoring development of the crop, but also providing favorable conditions for the development of *Helminthosporium* leaf blight, and certain stalk rot diseases. The most severe epidemic was noted this year at the Woodstock field. Fortunately the corn crop was well along in its development by the time leaf blight became widespread, and actual reduction in yield was not severe.

Maturity was slow because of a wet September and October, and moisture percentage in the grain was about 3 percent above that for 1959. Only the Urbana test was at a normal moisture percent at harvest, but the test was severely lodged, especially in the high-population planting, and reduced yields were noted on a number of hybrids.

MEASURING PERFORMANCE

The entries of the 1960 tests are listed in the tables in alphabetical order. It is hoped that this arrangement will reduce the emphasis often placed on yield alone, and that it will call attention to the importance of more than a single year's observations.

Yield of grain. In all tests the total acre yield was calculated as shelled corn containing 15.5 percent moisture, the upper limit allowable for No. 2 corn. Shelled-corn weight and moisture percentage were determined for each plot of each hybrid. All moisture determinations were made with a Radson moisture tester.

Erect plants. The count of erect plants in each plot of each hybrid was taken at the time of harvest of the respective test field. Plants leaning at an angle of 45° or more or broken below the ear were considered lodged. Plants broken only above the ear were considered to be erect.

Stand. A count was made in late summer at all fields of the number of missing plants in each plot of each entry. The percent stand was computed by comparing the actual number of plants in each plot with

the number that would have been present if all kernels planted had produced mature plants. Stand differences may have been caused by failure of germination or by disease, insect damage, or cultivation injury.

The following should be kept in mind when comparing the performance of hybrids on any one field:

1. Tests covering several years (see first part of data tables) give more reliable results than those covering only one year. Therefore special attention should be given to the summaries covering three or five years' results. However, the fact that a hybrid does not appear in the summaries should not be overemphasized, since its absence may mean that 1960 was the first year in which it was tested or that it missed only one year of the series.

2. Small differences, especially in a single year's test, do not necessarily indicate that one hybrid is truly superior to another. Interpretation of the data and comparison of hybrids may be made more meaningful by use of the "difference necessary for significance" appearing at the bottom of each table. These differences have been computed by the "Multiple Range test."¹ To find the difference necessary for the 5-percent level of significance in comparing any two or more hybrids, the hybrids must be listed in order of their performance for the particular character being considered (they are now listed alphabetically in the 1960 results and ranked by yield in the summaries). Then the number of hybrids being compared plus the number falling between them on this ranking list should be counted. The total will be the "number in range." Once the "number in range" has been determined, the corresponding "difference necessary for significance" can be read from the table.

CONTRIBUTORS OF SEED

AES Hybrids.....	George Pfeifer Seed Co.....	Arcola
Abbott Hybrids.....	John R. Abbott.....	Walnut
Ainsworth Hybrids.....	Ainsworth Seed Co.....	Mason City
Appl Hybrids.....	Appl's Hybrid Seed Co.....	208 N. Main St., St. Joseph
Bear Hybrids.....	Bear Hybrid Corn Co.....	Box 628, Decatur
Canterbury Hybrids.....	C. E. Canterbury Seed Co.....	Cantrall
Cargill Hybrids.....	Cargill, Inc.....	200 Grain Ex- change Bldg., Minneapolis 15, Minn.

¹ DUNCAN, D. B., "Multiple Range and Multiple F. Tests." *Biometrics* 11(1): 1-43. 1955.

Cornelius Hybrids.....	Cornelius Hybrid Corn Co.....	Bellevue, Iowa
Crib Filler Hybrids.....	Mitchell Farms.....	Windfall, Ind.
DeKalb Hybrids.....	DeKalb Agriculture Assn., Inc.....	310 N. 5th St., DeKalb
Doubet Hybrids.....	E. W. Doubet.....	Hanna City
Embro Hybrids.....	Ed. F. Mangelsdorf and Bros., Inc.....	1020 S. 4th St., P.O. Box 327, St. Louis 66, Mo.
Forster Hybrids.....	Forster Seed Co.....	Donnellson, Iowa
Frey Hybrids.....	Frey Hybrid Corn Co., Inc.....	Gilman
Holmes Hybrids.....	Holmes Hybrids, Inc.....	Edelstein
Illinois Hybrids.....	Illinois Agr. Exp. Station.....	Urbana
	George Pfeifer Seed Co.....	Arcola
	Stone Seed Co.....	Pleasant Plains
Indiana Hybrids.....	Illinois Agr. Exp. Station.....	Urbana
	Princeton Farms.....	P. O. Box 319, Princeton, Ind.
Jones Hybrids.....	Jones Farm Store.....	Ridgeway
McAllister Hybrids.....	McAllister Seed Farms.....	Mt. Pleasant, Iowa
Middlekoop Hybrids.....	John Middlekoop.....	Packwood, Iowa
Moews Hybrids.....	Moews Seed Co.....	Granville
Monier Hybrids.....	Roger Monier.....	Sparland
Morton Hybrids.....	Roy A. Morton and Sons, Inc.....	Bowen
Mountjoy Hybrids.....	Mountjoy Hybrid Seed Co.....	Atlanta
Muncy Chief Hybrids.....	Hoffman Seed and Grain Co.....	Muncy, Pa.
Munson Hybrids.....	Munson Hybrids.....	R. R. 3, Galesburg
Nichols Hybrids.....	Nichols Bros.....	Hebron
Northrup King Hybrids....	Northrup King and Co.....	1500 Jackson N.E., Minneapolis 13, Minn.
Null Hybrids.....	Null Seed Farms.....	R. F. D. 1, Colchester
Pfeifer Hybrids.....	George Pfeifer Seed Co.....	Arcola
P.A.G. Hybrids.....	Pfister Assoc. Growers, Inc.....	W. Galena Road, Aurora
Pioneer Hybrids.....	Pioneer Hi-Bred Corn Co. of Illinois.	Princeton
Plymouth Hybrids.....	Bruns Bros. Seed Co.....	Camp Point
Pocklington Hybrids.....	Pocklington Bros.....	So. Standard City
Prairie Gold Hybrids.....	Dittmer Seeds.....	Carthage
Princeton Hybrids.....	Princeton Farms.....	P.O. Box 319, Princeton, Ind.
Robe Hybrids.....	Robe Hybrid Corn Co.....	Smithshire
Schenk's Hybrids.....	Charles T. Schenk and Sons, Inc.....	Vincennes, Ind.
Schwenk's Hybrids.....	Schwenk Seed Co.....	Edwards
Sieben Hybrids.....	Sieben Hybrids.....	Geneseo
Steckley Hybrids.....	Steckley Hybrid Corn Co.....	2416 N. St., Lincoln, Neb.
Stewart Hybrids.....	Stewart Hybrids Inc.....	Princeville
Stiegelmeier Hybrids.....	H. L. Stiegelmeier.....	1400 Mark Lane, Normal
Stone Hybrids.....	Stone Seed Co.....	Pleasant Plains
Stull Hybrids.....	Stull Bros., Inc.....	Sebree, Ky.
Super-Crost Hybrids.....	E. J. Funk and Sons.....	Kentland, Ind.
Tiemann Hybrids.....	Tiemann Tested Hybrid Corn Co..	917 E. Oakland Ave., Bloomington
Todd Hybrids.....	W. H. Todd and Sons.....	Burlington, Ind.
Tomco Hybrids.....	Tomco Inc.....	Belmond, Iowa
Trisler Hybrids.....	Trisler Seed Farms Inc.....	Fairmount
Troyer Hybrids.....	C. E. Troyer.....	R. R. 1, La Fontaine, Ind.

United-Hagie Hybrids	United-Hagie Hybrids, Inc.	503 Park Street, Des Moines 9, Iowa
Van Horn Hybrids	Van Horn Hybrids, Inc.	Cerro Gordo
Victor Hybrids	Polo Seed Co.	Polo
Whisnand Hybrids	Whisnand Hybrid Corn Co.	R. R. 3, Arcola
Wyckoff's Hybrids	Wyckoff's Hybrid Corn Co.	R. R. 3, Valparaiso, Ind.
Wyffels Hybrids	William Wyffels	P. O. Box 157, R. R. 1, Geneseo

PEDIGREES OF 34 HYBRIDS

Following is a list of open-pedigree hybrids whose performance is shown in this bulletin:

AES 702 . . . (WF9×Hy2)(C103×M14)	Ill. 1996 (Hy2×Oh7)(B14×C103)
AES 805 . . . (WF9×38-11)(C103×Oh45)	Ill. 2214W . . . (R30×Ky27)(H21×K64)
Ill. 274-1 . . . (WF9×Hy2)(Oh7×187-2)	Ill. 3042 (WF9×B14)(B40×Oh45)
Ill. 1277 . . . (WF9×M14)(187-2×I.205)	Ill. 3152 (WF9×M14)(B14×Oh43)
Ill. 1332 . . . (WF9×38-11)(Hy2×Oh7)	Ill. 3182A . . . (WF9×R105)(R151×R154)
Ill. 1349 . . . (38-11×Mo.940)(K155×K201)	Ill. 3302A-1 . . (W64A×M14)(B14×R172)
Ill. 1421 . . . (WF9×Hy2)(P8×Oh7)	Ill. 3315A . . . (WF9×Hy2)(R109B×B14)
Ill. 1511 . . . (WF9×Hy2)(38-11×L304A)	Ill. 3343 (R71×R74)(H49×H55)
Ill. 1555A . . (WF9×Oh51A)(I.224×Oh28)	Ill. 3347 (R74×R101)(H49×H55)
Ill. 1570 . . . (WF9×38-11)(Hy2×Oh41)	Ill. 3348 (R74×R109B)(H49×H55)
Ill. 1851 . . . (C103×38-11)(Oh7×CI.21E)	Ill. 3360 (R101×Oh41)(H49×H51)
Ill. 1919 . . . (WF9×38-11)(R130×R156)	Ill. 6201 (R53×Oh7)(WF9×B14)
Ill. 1936 . . . (WF9×Hy2)(M14×B14)	Ill. 6202 (R53×Oh51)(Oh43×W64A)
Ill. 1952 . . . (M14×B14)(A545×W64A)	Ill. 8001 (Hy2×R138)(Oh7×Oh7B)
Ill. 1960 . . . (W64A×M14)(B14×A545)	Ill. 8006 (R158×CI.42A)(Oh7A×Oh7B)
Ill. 1969A . . (WF9×R165)(R168×B14)	Ind. 851 (H49×H55)(H59×B14)
Ill. 1992 . . . (C103×B14)(WF9×Oh7A)	Ind. 909 (K64×K61)(H21×33-16)

Table 3. — EXTREME NORTHERN ILLINOIS: Woodstock

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1958-1960				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Moews 500A.....	110.2	24.9	56.4	95.2
Pioneer 371.....	102.0	19.5	62.1	93.9
Pioneer 380.....	99.0	20.5	67.3	86.4
Moews 48A.....	99.0	22.7	70.7	91.5
P.A.G. 305 (formerly 8884).....	99.0	23.1	74.4	92.7
Pioneer 354.....	98.5	22.1	67.0	87.9
Moews 14E.....	96.0	21.4	50.6	94.2
Hulting 242.....	96.0	23.3	73.8	81.6
P.A.G. 62.....	95.5	20.7	51.5	91.8
DeKalb 444.....	94.0	24.8	72.3	93.7
Steckley's Genetic Giant 1.....	93.8	19.6	67.0	86.8
P.A.G. 323.....	93.8	24.0	55.6	92.9
P.A.G. 234.....	93.7	22.5	61.6	93.6
DeKalb 411.....	93.3	21.1	65.1	89.9
DeKalb 414.....	92.8	22.4	62.7	90.3
DeKalb 423.....	91.6	24.4	58.9	93.5
Nichols NB43.....	91.0	22.1	63.1	89.0
Northrup King KT6.....	90.8	22.8	57.7	89.0
Moews 14DR.....	90.1	21.0	59.5	93.3
Steckley's Genetic Giant 4.....	89.2	20.8	71.6	86.2
Northrup King KT.....	89.2	22.6	56.5	88.4
Illinois 1555A (Station).....	88.8	21.5	60.5	91.4
Illinois 1960 (Station).....	86.8	21.2	64.0	94.5
Nichols NB53.....	86.5	20.8	54.2	90.9
Illinois 1277 (Station).....	81.6	22.1	53.8	87.1
Average of all entries.....	93.7	22.1	62.3	90.6
Number in range	Difference necessary for significance			
2.....	12.9	2.5	N.S.	N.S.
3-5.....	14.4	2.8	N.S.	N.S.
6-10.....	15.3	3.0	N.S.	N.S.
Over 10.....	16.2	3.2	N.S.	N.S.
SUMMARY: 1959-1960				
Moews 500A.....	113.5	25.0	76.4	94.5
DeKalb 400.....	107.2	22.9	58.6	85.8
Moews 48A.....	100.7	23.8	82.0	91.0
Hulting 242.....	100.6	21.8	76.3	87.4
Cornelius 404B.....	100.5	22.0	73.8	93.7
DeKalb 440.....	100.4	23.9	78.9	90.7
P.A.G. 305 (formerly 8884).....	99.4	24.1	76.9	94.0
Pioneer 371.....	99.0	20.8	75.5	95.9
Hulting 238.....	97.8	22.3	57.3	95.2
Pioneer 354.....	97.7	22.6	70.9	92.7
Pioneer 380.....	97.6	20.9	69.6	93.9
DeKalb 444.....	97.2	23.6	81.3	95.2
Pioneer 352.....	97.0	22.0	61.8	94.7
Moews 14E.....	96.5	22.4	61.8	95.1
Cargill 180.....	96.4	22.8	68.1	85.2
Northrup King KT.....	95.1	21.2	62.3	92.7
Northrup King KT6.....	94.9	24.0	64.7	91.0
Nichols NB43.....	94.5	22.8	63.3	90.7
P.A.G. 62.....	94.0	21.1	64.8	94.4
DeKalb 423.....	93.4	23.5	62.9	92.8
P.A.G. 234.....	92.7	22.7	74.2	94.6
Hulting 245.....	91.3	22.0	72.4	92.6
Steckley's Genetic Giant 1.....	90.9	20.0	68.7	88.2
DeKalb 411.....	90.8	22.4	71.8	93.2
P.A.G. 323.....	90.8	23.2	67.5	96.0
DeKalb 414.....	90.4	22.7	70.8	90.5
Super-Crost 438.....	89.4	22.4	72.1	92.2
Steckley's Genetic Giant 4.....	87.8	21.4	74.2	90.6
Nichols NB63.....	86.8	22.5	76.4	92.9
Moews 14DR.....	86.7	22.4	62.1	95.8
Illinois 1555A (Station).....	86.0	22.1	64.8	94.3
Nichols NB53.....	85.0	21.4	60.3	92.2
Illinois 1960 (Station).....	83.7	21.2	67.3	94.3
Illinois 1277 (Station).....	71.9	23.2	57.4	94.1
Average of all entries.....	94.0	22.4	69.0	92.6
Number in range	Difference necessary for significance			
2.....	13.4	1.4	N.S.	N.S.
3-5.....	15.0	1.6	N.S.	N.S.
6-10.....	16.0	1.7	N.S.	N.S.
11-20.....	16.8	1.8	N.S.	N.S.
Over 20.....	17.1	1.8	N.S.	N.S.

(Table is concluded on next page)

Table 3. — Woodstock — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Abbott A2.....	86.2	24.9	95.8	87.8
Abbott A3.....	83.9	23.1	98.3	93.9
Cargill 180.....	83.3	23.7	83.0	86.3
Cargill 5929.....	91.0	25.2	93.8	87.1
Cornelius 404B.....	90.6	23.3	95.0	90.9
DeKalb 238.....	82.0	22.3	94.4	96.2
DeKalb 400.....	90.3	22.9	92.0	82.5
DeKalb 411.....	75.5	23.2	86.2	93.1
DeKalb 414.....	81.2	22.7	95.2	97.7
DeKalb 423.....	82.4	24.5	92.6	93.9
DeKalb 427.....	79.3	23.6	93.3	90.1
DeKalb 440.....	87.9	25.0	97.7	84.8
DeKalb 441.....	89.3	23.6	95.0	92.4
DeKalb 444.....	84.1	24.3	96.0	95.4
DeKalb 633.....	85.7	28.6	93.8	85.6
DeKalb 640.....	98.5	27.1	99.1	91.6
DeKalb A301.....	83.0	24.1	96.8	93.9
Embro 44XE.....	88.8	25.9	91.5	97.7
Hulting 238.....	86.2	23.1	87.6	94.6
Hulting 242.....	78.9	22.4	91.5	84.0
Hulting 245.....	78.1	22.9	92.3	87.8
Hulting 260SC.....	84.4	23.9	90.3	92.4
Illinois 1277 (Station).....	73.9	24.0	89.3	92.4
Illinois 1555A (Station).....	72.4	22.9	92.4	96.9
Illinois 1952 (Station).....	88.8	23.2	92.7	94.6
Illinois 1960 (Station).....	71.3	21.9	83.0	96.2
Illinois 1969A (Station).....	70.0	24.9	92.7	93.1
Illinois 3302A-1 (Station).....	73.0	23.5	97.5	91.6
Illinois 6201 (Station).....	69.1	23.3	77.0	95.4
Illinois 6202 (Station).....	78.1	20.3	89.2	92.4
Moews 14DR.....	76.1	23.3	85.5	99.2
Moews 14E.....	84.9	22.4	85.9	97.7
Moews 48A.....	79.1	25.1	96.2	87.1
Moews 500A.....	93.6	26.0	94.3	93.1
Moews 5093.....	82.0	22.8	90.4	95.4
Nichols NB43.....	83.3	23.8	89.2	85.6
Nichols NB53.....	70.5	22.2	86.7	87.8
Nichols NB63.....	71.9	24.0	99.0	91.6
Northrup King KT.....	72.8	20.8	88.4	87.1
Northrup King KT6.....	74.8	25.3	88.2	87.8
Northrup King KT628.....	81.8	27.4	83.5	93.1
P.A.G. 62.....	76.8	20.6	80.6	93.9
P.A.G. 234.....	82.7	22.9	86.9	98.4
P.A.G. 285.....	79.7	24.5	91.6	99.2
P.A.G. 305 (formerly 8884).....	91.1	25.3	98.3	93.1
P.A.G. 323.....	80.0	24.1	91.9	95.4
P.A.G. Exp. 15024.....	67.5	23.2	76.5	90.1
P.A.G. Exp. 15026.....	86.4	23.1	80.8	93.9
P.A.G. SX9 (formerly Exp. 15009).....	76.2	22.7	89.1	87.8
Pioneer 329.....	80.6	24.4	96.9	98.4
Pioneer 352.....	83.2	23.0	90.6	96.2
Pioneer 354.....	81.0	23.3	89.0	94.6
Pioneer 371.....	83.4	21.2	91.3	97.7
Pioneer 380.....	88.1	21.8	90.0	96.9
Pioneer 4055.....	83.3	21.8	96.8	87.1
Pioneer 6670.....	94.7	22.6	91.7	93.1
Pioneer 6707.....	96.5	23.1	93.7	95.4
Steckley's Genetic Giant 1.....	72.1	19.6	92.9	84.8
Steckley's Genetic Giant 4.....	77.9	21.6	88.7	87.8
Steckley's Genetic Giant 10.....	80.4	24.2	96.7	92.4
Stewart S-94.....	77.4	24.2	91.7	86.3
Super-Crost 214.....	73.6	21.3	83.9	94.6
Super-Crost 438.....	69.9	23.3	85.6	87.8
Tomco 449.....	79.3	23.7	89.8	96.9
Average of all entries.....	81.2	23.4	90.9	92.1
Number in range	Difference necessary for significance			
2.....	13.2	2.3	8.3	N.S.
3-5.....	14.7	2.5	9.3	N.S.
6-10.....	15.7	2.7	9.9	N.S.
11-20.....	16.5	2.8	10.4	N.S.
Over 20.....	17.2	3.0	10.9	N.S.

Table 4. — NORTHERN ILLINOIS: DeKalb

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1956-1960				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Hulting 242.....	113.9	23.6	97.4	94.5
Wyffels W-600.....	112.6	26.1	96.8	90.1
Wyckoff's W-20.....	112.4	25.7	96.5	89.2
Steckley's Genetic Giant 10.....	112.1	25.0	92.8	87.2
Frey 410.....	110.0	23.7	94.6	88.9
DeKalb 414.....	108.4	23.3	95.1	88.8
P.A.G. 234.....	107.7	22.5	94.9	88.7
Sieben S-340.....	107.4	23.7	93.7	92.5
Pioneer 345.....	107.2	22.7	93.0	89.8
DeKalb 459.....	107.0	22.8	89.4	89.7
Hulting 481.....	106.9	25.0	94.4	89.0
P.A.G. 323.....	106.6	25.0	94.0	90.3
Nichols NB43.....	106.4	24.2	93.6	91.3
Super-Crost 440.....	105.9	24.0	88.8	90.0
Hulting 238.....	105.1	22.5	91.5	90.4
Sieben S-440E.....	105.1	24.4	89.3	86.0
Sieben S-560.....	104.9	23.4	93.5	87.3
Wyckoff's W-25A.....	102.6	26.4	94.7	88.2
Sieben S-440.....	101.6	24.1	94.1	87.2
Average of all entries.....	107.6	24.1	93.6	89.4
Number in range				
2.....	N.S.	1.5	N.S.	N.S.
3-5.....	N.S.	1.6	N.S.	N.S.
6-10.....	N.S.	1.7	N.S.	N.S.
11-19.....	N.S.	1.8	N.S.	N.S.
SUMMARY: 1958-1960				
Moews CB65A.....	115.4	27.1	95.0	93.1
Northrup King KT6.....	112.2	27.7	92.4	91.9
Troyer L13.....	110.8	28.0	95.5	93.6
Pioneer 329.....	110.7	26.0	79.0	97.6
Wyffels W-600.....	110.6	28.9	92.7	94.6
Moews 500A.....	110.5	28.6	92.3	91.2
Moews 48A.....	110.0	27.6	95.7	93.3
Hulting 242.....	109.1	25.7	96.9	95.1
DeKalb 633.....	108.3	29.8	90.2	92.2
Steckley's Genetic Giant 10.....	107.6	27.6	91.0	89.6
Frey 410.....	107.5	25.6	94.7	96.2
Wyffels W-495.....	107.3	25.8	96.1	90.0
Sieben S-340.....	106.0	25.4	91.9	96.2
Wyckoff's W-20.....	106.0	28.2	95.9	89.9
DeKalb 414.....	105.7	25.1	91.8	92.3
Hulting 482.....	105.4	28.7	98.2	92.4
P.A.G. 305 (formerly 8884).....	103.9	26.9	94.0	93.0
Sieben S-440E.....	103.6	25.8	87.1	88.9
Hulting 481.....	103.3	27.1	92.3	93.0
DeKalb 640.....	103.0	31.1	96.5	93.9
Steckley's 18.....	102.8	27.3	85.1	93.1
United-Hagie WW40.....	102.8	27.6	93.4	88.4
Troyer M11T.....	102.1	29.3	91.3	92.0
Sieben S-360.....	102.0	27.7	89.9	91.9
Troyer M18.....	101.9	27.4	96.8	91.0
Troyer M12T.....	101.8	30.2	95.9	90.6
DeKalb 444.....	101.6	26.9	90.7	96.9
DeKalb 459.....	100.6	24.4	87.1	92.0
Tiemann T-62.....	100.4	27.8	91.4	91.7
Super-Crost 440.....	99.9	26.5	84.4	93.7
Hulting 238.....	99.8	24.9	91.5	89.6

(Table is continued on next page)

Table 4. — DeKalb — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1958-1960 — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Wyckoff's W-25A.....	99.6	28.0	92.4	93.5
Troyer M17T.....	98.8	29.6	95.6	91.0
P.A.G. 234.....	98.6	24.1	93.1	90.3
Pioneer 345.....	98.6	25.4	92.7	92.2
Hulting 484.....	98.0	27.1	90.0	87.8
Sieben S-320.....	97.8	27.0	92.9	92.8
Sieben S-560.....	97.5	25.3	91.2	89.4
P.A.G. 323.....	97.5	27.6	93.3	92.4
Troyer M13T.....	95.6	27.5	95.0	93.9
Sieben S-440.....	95.3	26.7	91.5	87.9
Super-Crost 438.....	94.4	26.7	89.8	85.5
Steckley's Genetic Giant 1.....	94.2	23.4	87.8	93.9
Nichols NB43.....	93.5	26.6	91.6	90.1
Nichols NB53.....	83.1	23.2	83.6	89.0
Average of all entries.....	102.6	27.0	92.4	92.0
Number in range	Difference necessary for significance			
2.....	10.8	2.3	6.0	N.S.
3-5.....	12.0	2.5	6.7	N.S.
6-10.....	12.8	2.7	7.1	N.S.
11-20.....	13.5	2.8	7.5	N.S.
Over 20.....	14.0	2.9	7.8	N.S.
1960 RESULTS				
Abbott A1.....	107.8	26.9	96.7	92.4
Abbott A2.....	113.1	28.4	97.5	89.3
Abbott A3.....	113.2	29.0	95.2	93.1
Abbott A4.....	118.0	28.2	86.3	87.8
Abbott A5.....	118.1	27.5	97.7	98.4
Bear Unicorn X600.....	98.0	24.3	79.9	87.1
Cargill 256.....	96.4	24.9	85.8	91.6
Cargill 270.....	92.6	25.0	89.9	90.1
Cornelius C45.....	102.1	27.6	95.0	90.9
Cornelius C75.....	108.9	28.6	94.7	85.6
DeKalb 400.....	123.7	25.9	96.5	88.6
DeKalb 414.....	114.8	26.1	90.4	94.6
DeKalb 427.....	96.8	26.2	95.7	89.3
DeKalb 440.....	108.1	27.3	92.4	100.0
DeKalb 441.....	115.3	27.6	94.5	96.2
DeKalb 444.....	101.0	27.3	92.1	97.7
DeKalb 459.....	103.4	25.4	91.2	94.6
DeKalb 633.....	105.9	29.2	87.5	90.1
DeKalb 640.....	116.3	32.1	97.6	94.6
DeKalb A301.....	99.1	25.4	92.3	87.1
DeKalb A506 (formerly X4008).....	110.4	27.3	95.1	92.4
DeKalb X72-076.....	98.7	29.1	79.0	90.9
Frey 410.....	100.3	25.7	96.1	99.2
Holmes 47E.....	110.5	28.1	92.6	93.1
Hulting 238.....	95.7	24.6	85.5	93.9
Hulting 242.....	112.3	25.7	96.8	95.4
Hulting 245.....	98.2	25.4	91.1	90.9
Hulting 260SC.....	119.9	26.6	90.3	96.9
Hulting 471.....	93.8	28.1	93.3	90.1
Hulting 481.....	95.5	27.6	93.0	85.6
Hulting 482.....	113.1	29.4	96.7	93.9
Hulting 484.....	105.4	28.1	91.2	83.3
Moews 48A.....	111.9	27.4	94.2	93.1
Moews 500A.....	112.4	30.6	94.0	91.6
Moews 505A.....	100.6	26.2	96.1	100.0
Moews CB65A.....	127.2	27.7	94.1	90.1
Monier 6-M-6.....	108.4	26.7	89.6	94.6
Nichols NB43.....	92.5	26.4	93.8	87.1
Nichols NB53.....	80.2	22.9	75.8	90.9
Nichols NB63.....	113.5	23.8	93.7	95.4

(Table is concluded on next page)

Table 4. — DeKalb — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Northrup King KT6.....	117.3	30.4	93.6	96.9
Northrup King KT628.....	111.0	30.3	96.8	94.6
Northrup King KT632.....	94.6	27.8	93.4	83.3
P.A.G. 234.....	101.8	24.7	88.3	91.6
P.A.G. 285.....	110.3	25.7	99.2	97.7
P.A.G. 305 (formerly 8884).....	109.4	26.1	95.9	93.9
P.A.G. 323.....	97.1	27.1	90.0	90.9
P.A.G. Exp. 11549.....	119.3	29.1	93.8	99.2
P.A.G. Exp. 15018.....	111.6	25.0	97.4	90.9
P.A.G. Exp. 15024.....	70.0	22.8	77.1	89.3
P.A.G. Exp. 15026.....	104.2	26.5	91.6	87.8
P.A.G. SX9 (formerly Exp. 15009).....	92.6	25.2	92.7	84.0
Pioneer 320.....	111.1	29.0	95.3	96.9
Pioneer 321 (formerly 4549).....	110.3	29.1	94.6	98.4
Pioneer 329.....	108.6	26.7	96.0	96.9
Pioneer 345.....	99.2	26.1	94.0	89.3
Pioneer 354.....	93.6	26.4	39.3	89.3
Pioneer 371.....	106.5	19.7	92.9	95.4
Pioneer 5536.....	128.9	25.9	91.4	98.4
Pioneer 6707.....	110.2	25.6	94.8	87.8
Pioneer 80201.....	112.4	31.2	95.1	93.1
Sieben S-320.....	97.1	27.6	87.8	92.4
Sieben S-340.....	106.6	25.1	88.6	99.2
Sieben S-360.....	100.9	28.3	84.8	90.1
Sieben S-440.....	108.8	28.3	95.4	87.8
Sieben S-440E.....	115.9	26.1	89.4	86.3
Sieben S-560.....	96.9	24.7	95.6	88.6
Sieben S-580.....	118.5	27.6	97.6	98.4
Steckley's Genetic Giant 10.....	105.1	28.5	94.3	93.1
Steckley's 18.....	101.8	27.2	78.4	90.1
Steckley's Genetic Giant 1.....	89.4	22.3	86.1	93.9
Stewart S-66B.....	106.4	28.7	97.2	81.0
Super-Crost 438.....	90.8	26.8	87.4	84.0
Super-Crost 440.....	106.0	25.9	77.1	90.9
Super-Crost 441.....	104.3	27.2	89.8	82.5
Super-Crost 470.....	112.3	27.6	90.2	93.9
Super-Crost S4.....	97.6	24.0	89.5	89.3
Super-Crost S5.....	82.1	26.1	86.9	92.4
Tiemann T-62.....	97.6	28.8	91.2	94.6
Tomco 619.....	106.7	28.5	94.3	93.9
Troyer E8T.....	105.4	26.8	94.9	88.6
Troyer E14T.....	99.2	29.1	87.9	87.8
Troyer E63T.....	89.6	25.2	90.7	91.6
Troyer L13.....	120.5	27.9	93.6	94.6
Troyer M3T.....	97.3	29.1	97.4	93.1
Troyer M11T.....	101.9	30.1	92.8	86.3
Troyer M12T.....	107.3	30.0	92.8	91.6
Troyer M13T.....	98.6	27.7	91.9	93.9
Troyer M17T.....	102.3	29.3	95.7	88.6
Troyer M18.....	117.6	26.3	95.3	96.9
United-Hagie WW40.....	96.3	28.9	96.3	84.0
United-Hagie X138.....	93.1	24.4	94.0	88.6
United-Hagie X140.....	112.6	23.8	89.6	93.1
Victor 368.....	93.9	26.9	87.2	88.6
Victor 369.....	94.0	27.6	83.7	92.4
Wyckoff's W-15.....	106.0	28.1	91.7	90.1
Wyckoff's W-20.....	104.0	29.0	94.7	84.8
Wyckoff's W-25A.....	103.2	29.3	88.3	97.7
Wyffels W-495.....	109.5	26.6	91.3	89.3
Wyffels W-600.....	114.0	29.0	95.0	92.0
Average of all entries.....	104.8	27.1	91.8	91.7
Number in range		Difference necessary for significance		
2.....	18.7	2.8	8.1	9.2
3-5.....	20.9	3.2	9.0	10.2
6-10.....	22.3	3.4	9.6	10.9
11-20.....	23.5	3.5	10.1	11.5
Over 20.....	24.8	3.7	10.7	12.2

Table 5. — WEST NORTH-CENTRAL ILLINOIS: Galesburg

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1956-1960				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
DeKalb 805.....	131.8	21.2	87.5	87.9
Schwenk S34.....	127.6	20.3	86.4	93.2
Null 83.....	127.6	21.2	84.6	91.8
Moews 524.....	126.7	21.6	89.5	91.2
Moews 520.....	126.5	20.6	81.6	89.5
Whisnand 852.....	125.4	22.2	88.9	91.2
Van Horn V.H. 101.....	124.9	21.6	87.3	92.7
Munson M-15.....	124.0	19.9	90.0	89.9
Pioneer 329.....	123.0	19.3	90.5	93.4
Pioneer 316.....	122.8	20.3	90.0	93.2
Whisnand 830.....	122.8	21.0	90.1	89.3
Tiemann T-68.....	122.7	19.7	86.9	90.0
Moews 524A.....	122.1	21.7	88.1	91.5
DeKalb 820.....	121.4	21.1	82.3	89.4
Appl A-130.....	120.8	20.5	82.6	89.2
Robe 30.....	120.0	21.6	83.8	83.0
Troyer M11T.....	119.4	20.7	91.9	89.8
Tiemann T-78.....	117.7	20.8	81.6	92.1
Hulting 242.....	117.5	19.5	87.5	87.4
Troyer L14T.....	117.5	20.9	90.4	90.8
Hulting 481.....	117.0	20.0	89.1	88.7
Sieben S-320.....	115.1	20.4	84.8	89.1
Holmes 39.....	114.4	22.7	80.2	89.1
Sieben S-340.....	112.8	20.3	79.4	86.9
Sieben S-360.....	111.5	20.7	78.6	88.7
Troyer M13T.....	108.9	20.0	90.8	88.7
Average of all entries.....	120.8	20.8	86.3	90.0
Number in range	Difference necessary for significance			
2.....	11.2	1.4	N.S.	5.2
3-5.....	12.5	1.6	N.S.	5.8
6-10.....	13.4	1.7	N.S.	6.2
11-20.....	14.1	1.8	N.S.	6.5
Over 20.....	14.6	1.9	N.S.	6.7
SUMMARY: 1958-1960				
DeKalb 805.....	138.4	22.6	93.8	87.7
Bear Unicorn X600.....	132.8	21.6	50.3	85.7
McAllister IVX1001A.....	131.4	21.1	96.8	88.3
Moews 524.....	131.0	22.8	87.6	92.6
Forster F44.....	130.7	23.1	88.9	89.8
Null N-83.....	129.4	23.1	87.0	93.6
Forster F33.....	128.4	23.0	86.5	89.4
Frey F57.....	128.3	22.3	89.0	90.9
P.A.G. 415.....	128.2	22.5	82.1	90.3
Holmes 47.....	127.6	21.6	85.6	92.3
Bear Ok878.....	126.7	22.0	88.7	91.2
Whisnand 852.....	126.2	22.8	83.8	90.9
Van Horn V.H. 101.....	124.3	22.6	83.0	92.8
Moews 520.....	123.4	22.1	85.3	90.0
Appl A-130.....	123.3	21.7	76.9	91.7
Stewart S-65.....	123.2	22.4	85.4	91.3
Schwenk S34.....	123.1	21.4	85.4	94.3
McAllister 13A.....	122.1	22.7	87.8	87.0
Pioneer 319.....	121.8	21.5	87.2	92.5
Moews 524A.....	121.8	23.3	87.8	91.2
DeKalb 3x1.....	121.5	21.3	78.3	94.7
Moews CB69A.....	121.4	22.3	78.3	93.1
Whisnand 830.....	121.1	22.2	95.6	88.1
Pioneer 329.....	121.0	19.7	91.2	95.3
Troyer M11T.....	120.8	21.3	90.8	92.7
Pioneer 316.....	120.5	21.2	91.4	93.9
Monier 6-M-6.....	120.3	21.5	86.3	91.1
Forster F25.....	120.1	22.0	88.1	90.2
Tiemann T-68.....	119.9	20.1	83.5	88.3
Forster F56.....	119.7	23.1	87.7	87.3
DeKalb 820.....	119.6	21.9	76.5	89.0
Munson M-15.....	118.8	21.2	81.7	90.4

(Table is continued on next page)

Table 5. — Galesburg — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1958-1960 — concluded				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Prairie Gold D-791 (Dittmer).....	118.6	20.3	92.6	90.7
Wyffels W-600.....	118.1	21.0	87.9	91.5
Tiemann T-78.....	117.7	22.0	79.3	92.3
Ainsworth X-97.....	117.7	22.4	93.8	89.0
DeKalb 640.....	117.7	22.6	90.7	88.0
DeKalb 633.....	117.4	22.6	90.0	87.2
DeKalb 812.....	117.4	23.4	90.8	90.0
DeKalb 803A.....	117.2	23.7	76.1	93.1
Robe 30.....	116.1	23.5	79.7	80.8
Holmes 39.....	116.0	23.8	75.0	91.3
United-Hagie U.H. 52B.....	115.9	21.3	86.9	90.5
Frey 892.....	115.4	20.6	81.7	89.3
United-Hagie U.H. WW50.....	115.0	22.4	86.0	88.1
Steckley's Genetic Giant 13.....	114.7	21.2	88.4	88.0
Troyer M9A.....	113.5	22.7	86.2	92.5
Hulting 482.....	113.4	21.3	89.1	90.6
Troyer L14T.....	112.3	22.1	87.1	92.7
Sieben S-320.....	111.4	21.0	82.6	88.8
Sieben S-340.....	109.3	21.0	75.0	86.2
Troyer L13.....	108.4	22.4	88.2	88.1
Sieben S-360.....	108.1	21.4	72.1	90.1
Hulting 481.....	106.7	21.6	90.8	87.5
Hulting 242.....	106.3	20.5	88.2	86.0
Troyer M13T.....	101.5	21.2	87.9	87.9
Average of all entries.....	119.9	22.0	85.2	90.1
Number in range	Difference necessary for significance			
2.....	12.5	1.9	8.5	N.S.
3-5.....	14.0	2.2	9.5	N.S.
6-10.....	14.9	2.3	10.1	N.S.
11-20.....	15.7	2.4	10.7	N.S.
Over 20.....	16.3	2.5	11.0	N.S.
1960 RESULTS				
Abbott A4.....	107.6	25.3	84.6	92.0
Abbott A5.....	94.4	28.5	92.2	72.6
Abbott A6.....	95.7	26.0	89.8	80.6
Ainsworth X-96.....	95.9	24.5	93.4	78.0
Ainsworth X-97.....	107.2	28.0	94.5	95.3
Ainsworth X-98.....	114.2	26.4	92.0	85.3
Ainsworth X-100.....	109.1	29.3	96.2	92.6
Appl A-130.....	104.5	26.0	83.8	95.3
Bear OK69.....	121.4	28.0	85.5	91.3
Bear OK96.....	133.8	27.2	91.7	98.0
Bear OK96A.....	112.8	27.7	91.1	84.0
Bear OK878.....	109.6	25.8	85.7	92.0
Bear Unicorn X600.....	124.0	26.5	89.5	94.0
Bear Unicorn X606.....	97.5	25.9	84.8	92.6
Cargill 285.....	84.5	24.3	98.4	74.0
Cargill 310.....	98.6	26.2	97.0	89.3
DeKalb 3x1.....	105.4	24.1	83.9	96.0
DeKalb 633.....	115.1	26.8	91.9	90.0
DeKalb 640.....	109.1	28.3	93.2	90.6
DeKalb 661.....	104.8	27.3	85.0	97.3
DeKalb 803.....	103.4	26.3	95.6	92.6
DeKalb 803A.....	101.0	27.1	87.4	96.0
DeKalb 805.....	130.5	25.1	96.3	90.6
DeKalb 812.....	108.5	28.3	94.5	96.6
DeKalb 820.....	95.6	26.5	72.5	85.3
DeKalb A504.....	108.3	27.3	97.6	86.0
DeKalb A703.....	124.1	30.6	96.4	96.0
DeKalb X91-005.....	111.6	27.8	94.0	90.0

(Table is continued on next page)

Table 5. — Galesburg — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — continued				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Forster F11.....	102.3	25.4	96.9	90.6
Forster F25.....	100.1	27.9	96.3	90.6
Forster F33.....	114.8	31.2	87.5	96.6
Forster F44.....	129.1	27.2	87.8	92.0
Forster F56.....	106.7	28.9	95.2	88.0
Frey 892.....	104.3	23.3	80.2	88.0
Frey F57.....	121.7	27.5	94.9	92.0
Holmes 39.....	100.1	30.0	77.0	87.3
Holmes 47.....	120.9	25.4	89.1	91.3
Hulting 242.....	91.3	25.1	91.6	88.0
Hulting 260SC.....	115.4	24.7	93.8	97.3
Hulting 345.....	105.8	27.4	96.7	85.3
Hulting 471.....	94.7	24.7	96.2	90.0
Hulting 481.....	95.8	26.8	94.4	86.0
Hulting 482.....	106.8	24.6	91.3	92.0
Illinois 1421 (Station).....	110.7	25.3	80.0	94.0
Illinois 1996 (Station).....	112.8	24.4	85.9	90.6
Illinois 3042 (Station).....	114.7	25.6	91.0	95.3
Illinois 3343 (Station).....	130.9	28.8	88.3	96.6
Illinois 8001 (Station).....	113.8	28.7	87.0	92.6
McAllister 11.....	103.4	25.6	84.7	93.3
McAllister 13A.....	100.3	27.7	89.5	82.0
McAllister 23A.....	110.8	26.7	97.2	97.3
McAllister 55A.....	127.3	24.2	90.6	91.3
McAllister 88A.....	93.4	27.2	88.4	87.3
McAllister IVX1001A.....	122.3	22.9	98.4	90.0
Middlekoop M-33.....	116.4	22.6	90.4	90.6
Middlekoop M-66.....	109.7	25.6	91.3	92.0
Middlekoop M-80.....	114.5	24.7	97.1	94.0
Middlekoop M-81.....	115.3	26.8	96.3	92.0
Middlekoop M-88.....	109.6	27.8	93.0	96.0
Moews 520.....	111.2	27.6	85.9	93.3
Moews 524.....	122.1	26.5	89.7	98.0
Moews 524A.....	110.7	29.1	89.5	88.6
Moews CB69A.....	105.8	28.2	94.9	92.6
Monier 6-M-6.....	108.4	25.8	88.8	93.3
Morton M-404.....	93.5	26.5	91.3	86.0
Morton M-505.....	112.0	24.8	95.1	86.6
Munson M-15.....	104.2	24.6	78.1	94.6
Munson M-15A.....	101.8	25.7	97.0	91.3
Munson M-66.....	111.3	23.2	96.3	88.0
Northrup King KT628.....	97.6	26.5	85.3	78.6
Northrup King KT632.....	108.4	27.1	97.7	85.3
Northrup King KT645.....	105.6	27.9	93.4	90.6
Null N-83.....	111.4	28.0	90.9	96.0
Null N-100.....	104.9	27.2	90.3	91.3
P.A.G. 405.....	122.4	27.2	95.8	93.3
P.A.G. 415.....	113.2	27.3	90.2	89.3
P.A.G. 418.....	98.8	27.5	90.0	91.3
P.A.G. 434.....	93.1	28.1	82.8	86.6
P.A.G. 444.....	113.0	32.0	90.4	97.3
P.A.G. SX9 (formerly Exp. 15009).....	102.8	23.5	96.9	88.0
P.A.G. SX14 (formerly Exp. 15014).....	110.2	26.9	96.4	79.3
P.A.G. SX19 (formerly Exp. 15019).....	112.0	31.9	96.8	86.6
Pioneer 309A.....	120.8	32.9	93.3	98.6
Pioneer 309B.....	105.5	35.9	97.3	97.3
Pioneer 312A.....	103.5	28.6	94.8	89.3

(Table is concluded on next page)

Table 5. — Galesburg — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Pioneer 314.....	109.1	28.8	97.0	88.6
Pioneer 316.....	100.9	25.9	91.2	92.6
Pioneer 319 (formerly 2990).....	101.2	26.1	93.6	92.6
Pioneer 321 (formerly 4549).....	117.5	27.3	92.4	90.6
Pioneer 329.....	103.4	22.3	88.5	98.6
Pioneer 5625.....	103.8	29.6	90.6	94.6
Pioneer 6201.....	101.3	26.0	94.1	92.0
Pioneer 80201.....	127.0	26.9	94.6	99.3
Prairie Gold D-791 (Dittmer).....	109.2	22.6	92.9	94.0
Robe 30.....	99.0	28.3	82.0	80.0
Robe 41.....	108.2	25.3	92.6	90.6
Schwenk S17.....	98.0	26.6	93.7	87.3
Schwenk S17L.....	98.6	24.3	93.6	82.6
Schwenk S20.....	118.2	24.6	97.0	90.6
Schwenk S34.....	110.1	25.0	89.2	98.0
Sieben S-320.....	96.8	23.6	84.8	90.0
Sieben S-340.....	94.8	24.3	91.1	84.6
Sieben S-360.....	81.1	24.1	67.2	88.0
Steckley's 18.....	93.4	24.1	87.4	90.6
Steckley's Genetic Giant 10.....	80.5	21.6	85.8	82.6
Steckley's Genetic Giant 12.....	99.3	25.0	86.4	93.3
Steckley's Genetic Giant 13.....	95.1	24.1	88.3	86.6
Stewart S-56B.....	99.9	25.5	94.0	89.3
Stewart S-65.....	110.8	25.5	86.2	86.6
Tiemann T-68.....	106.3	23.4	78.6	89.3
Tiemann T-78.....	103.2	26.7	80.8	94.6
Tomco 838.....	112.4	26.9	93.6	95.3
Tomco 852.....	108.4	27.9	88.5	94.0
Troyer L13.....	73.9	26.6	92.7	79.3
Troyer L14T.....	92.5	25.7	88.2	90.6
Troyer L17.....	116.5	25.1	83.5	94.6
Troyer M9A.....	93.6	28.7	90.7	89.3
Troyer M11T.....	99.6	24.5	90.5	96.6
Troyer M13T.....	100.8	25.8	91.8	98.0
Troyer M17T.....	102.9	26.6	96.2	94.0
Troyer M21.....	103.3	28.2	97.2	91.3
Troyer M22.....	106.3	24.9	96.9	76.0
United-Hagie 52B.....	100.2	22.9	94.8	90.6
United-Hagie WW50.....	96.9	27.8	79.9	88.6
United-Hagie X146.....	91.7	21.1	88.2	81.3
Van Horn V.H. 95-1.....	99.6	28.0	92.1	93.3
Van Horn V.H. 101.....	126.9	27.2	89.4	95.3
Van Horn V.H. 111.....	109.2	26.0	84.5	92.0
Whisnand 830.....	104.8	26.9	87.5	92.6
Whisnand 834.....	96.4	28.1	88.6	86.0
Whisnand 852.....	115.6	28.3	93.7	95.3
Wyffels W-600.....	106.6	25.4	95.4	92.0
Average of all entries.....	106.6	26.5	90.6	90.1
Number in range	Difference necessary for significance			
2.....	21.7	3.6	9.6	12.6
3-5.....	24.2	4.0	10.8	14.0
6-10.....	25.7	4.3	11.4	14.9
11-20.....	27.1	4.5	12.1	15.7
Over 20.....	28.7	4.8	12.8	16.6

Table 6. — EAST NORTH-CENTRAL ILLINOIS: Ashkum

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1956-1960				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
DeKalb 805.....	108.3	21.5	95.5	85.8
DeKalb 632.....	106.2	23.1	90.8	87.4
Tiemann T-68.....	103.6	19.4	90.5	88.3
Troyer M13T.....	102.4	21.2	90.4	90.5
Illinois 274-1 (Station).....	101.4	21.3	87.6	89.2
Troyer L14T.....	100.9	21.0	90.8	89.4
Moews 524A.....	100.6	22.1	89.3	86.8
Frey 892.....	99.5	21.0	87.4	89.8
Troyer M11T.....	99.5	22.7	95.2	86.2
Trisler T-32B.....	98.3	21.4	93.4	88.2
Wyckoff's W-25A.....	96.5	22.0	91.3	88.5
Frey 644.....	95.9	21.6	90.2	86.9
Hulting 242.....	95.7	19.3	95.5	83.2
Moews CB96.....	95.5	21.7	79.0	90.0
Van Horn V.H. 100.....	93.5	22.5	91.2	86.5
Frey 692.....	93.4	22.3	92.6	83.8
Wyckoff's W-20.....	92.9	20.8	94.3	88.2
Troyer M17T.....	91.2	22.0	91.8	86.1
Average of all entries.....	98.6	21.5	90.9	87.5
Number in range	Difference necessary for significance			
2.....	N.S.	1.9	N.S.	N.S.
3-5.....	N.S.	2.1	N.S.	N.S.
Over 5.....	N.S.	2.2	N.S.	N.S.
SUMMARY: 1958-1960				
Crib Filler 77.....	103.7	21.2	92.2	86.7
Pioneer 321 (formerly 4549).....	99.6	21.8	96.5	89.9
Bear OK96.....	96.0	23.0	89.6	83.9
DeKalb 632.....	96.0	23.1	94.0	87.0
Moews CB60A.....	94.8	23.7	89.1	92.2
Bear Unicorn X600.....	94.4	20.2	90.8	87.0
DeKalb 805.....	94.3	21.8	93.9	82.7
Van Horn V.H. 97.....	93.1	20.9	91.9	86.1
Trisler T-35B.....	92.9	20.7	92.8	83.7
DeKalb 633.....	91.3	22.7	95.6	83.2
Bear OK55.....	90.9	22.0	89.1	81.9
Troyer M13T.....	90.5	22.5	93.9	89.7
Tiemann T-68.....	89.7	19.6	93.2	86.6
Frey 892.....	89.2	21.3	93.4	90.2
Illinois 274-1 (Station).....	89.1	21.2	92.4	89.3
DeKalb 640.....	88.9	22.1	94.4	86.2
Wyckoff's W-25A.....	88.1	21.5	92.1	87.7
Troyer L14T.....	88.0	21.1	92.7	88.1
Moews 524A.....	88.0	22.4	91.8	85.2
Ainsworth X97.....	87.0	22.1	94.8	89.3
Crib Filler 131.....	87.0	23.0	92.9	77.7
Trisler T-32B.....	86.7	22.2	93.7	86.6
Moews CB96.....	86.2	21.4	90.7	91.6
DeKalb 803A.....	85.9	23.2	88.4	85.0
Troyer M11T.....	84.0	22.9	92.9	85.1
P.A.G. 415.....	83.9	21.8	95.6	85.9
Pioneer 319.....	83.6	21.2	91.7	77.6
Troyer M9A.....	83.4	21.6	92.7	85.1
Hulting 482.....	82.7	21.3	96.3	85.5
Troyer L13.....	82.5	20.5	87.9	82.7
Frey 644.....	82.4	21.1	91.7	85.8
Van Horn V.H. 100.....	80.8	21.7	90.4	86.8
Troyer M18.....	80.6	21.6	96.9	83.3
Wyckoff's W-20.....	78.9	21.5	93.6	86.2
Hulting 242.....	78.7	19.7	95.2	81.9
Frey 692.....	78.0	22.0	95.1	83.7
Troyer M17T.....	75.3	22.3	90.4	84.9
Average of all entries.....	87.7	21.7	92.7	85.7

(None of the differences between hybrids are large enough to be statistically significant at the 5-percent level of significance.)

(Table is continued on next page)

Table 6. — Ashkum — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Ainsworth X-96.....	86.8	23.0	92.9	95.4
Ainsworth X-97.....	73.1	20.4	91.3	93.9
Ainsworth X-98.....	79.5	21.2	93.7	96.2
Ainsworth X-100.....	73.6	24.6	89.9	97.7
Bear OK55.....	68.2	22.1	79.3	87.8
Bear OK96.....	74.5	22.5	80.9	97.7
Bear OK96A.....	87.5	23.8	86.0	93.1
Bear Unicorn X600.....	72.5	22.1	83.5	93.9
Cargill 310.....	76.4	23.1	88.6	90.9
Cargill 340.....	82.9	24.3	92.6	83.3
Crib Filler 63.....	84.8	20.0	94.2	93.9
Crib Filler 66.....	86.4	24.0	92.8	94.6
Crib Filler 70.....	61.0	20.9	89.0	93.9
Crib Filler 77.....	77.8	22.9	84.5	90.1
Crib Filler 116.....	76.3	22.9	93.2	90.9
Crib Filler 123.....	77.7	23.0	89.4	90.1
Crib Filler 131.....	74.1	23.0	82.8	78.0
DeKalb 632.....	98.1	24.1	90.1	93.9
DeKalb 633.....	73.2	24.3	92.7	85.6
DeKalb 640.....	69.4	23.2	88.1	91.6
DeKalb 803.....	78.7	23.4	91.8	84.0
DeKalb 803A.....	77.5	24.3	76.2	90.9
DeKalb 805.....	72.4	22.2	86.6	84.0
DeKalb 869.....	72.5	25.0	86.6	81.8
DeKalb 898A.....	73.3	23.9	86.4	91.6
DeKalb A504.....	66.0	22.4	92.0	91.6
DeKalb A703.....	88.4	22.8	85.0	84.0
DeKalb X8034.....	75.9	22.8	89.3	91.6
DeKalb X82-030.....	91.3	23.1	93.7	89.3
Frey 644.....	77.4	21.4	93.2	86.3
Frey 692.....	82.7	23.2	90.0	84.0
Frey 892.....	76.0	21.9	94.2	91.6
Hulting 242.....	66.1	21.6	94.7	87.8
Hulting 260SC.....	74.1	22.8	93.7	93.9
Hulting 345.....	73.7	23.1	98.2	85.6
Hulting 471.....	73.4	21.3	92.8	88.6
Hulting 482.....	79.6	20.6	92.0	94.6
Illinois 274-1 (Station).....	73.8	20.5	93.1	96.9
Illinois 3347 (Station).....	90.4	25.6	93.8	96.2
Moews 524A.....	77.6	24.1	87.3	91.6
Moews CB60A.....	70.6	24.2	80.2	91.6
Moews CB96.....	61.8	22.2	83.1	96.9
Moews CB96A.....	82.8	24.3	84.1	90.9
Monier 6-M-6.....	67.2	21.8	88.9	94.6
Northrup King KT632.....	87.7	22.2	90.0	90.1

(Table is concluded on next page)

Table 6. — Ashkum — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Northrup King KT645.....	65.2	26.8	94.3	87.1
P.A.G. 405.....	72.5	21.9	92.8	87.1
P.A.G. 415.....	75.7	21.3	93.9	88.6
P.A.G. 418.....	82.5	23.8	90.7	93.9
P.A.G. SX9 (formerly Exp. 15009).....	74.7	19.3	94.5	83.3
P.A.G. SX14 (formerly Exp. 15014).....	65.1	23.2	91.5	81.8
Pioneer 309A.....	74.1	29.3	91.7	94.6
Pioneer 309B.....	56.0	32.8	90.0	86.3
Pioneer 314.....	73.8	24.9	88.8	87.1
Pioneer 319 (formerly 2990).....	55.1	22.3	89.0	75.7
Pioneer 321 (formerly 4549).....	78.2	22.2	92.4	88.6
Pioneer 329.....	65.6	20.6	93.2	87.8
Pioneer 5536.....	78.0	22.4	95.1	93.1
Pioneer 5553.....	74.8	20.0	91.0	75.7
Pioneer 6201.....	68.4	22.5	94.1	82.5
Pioneer 6738.....	74.6	21.9	94.6	90.9
Pioneer 80201.....	76.9	22.5	92.2	87.8
Steckley's 18.....	73.7	23.4	86.2	87.1
Steckley's Genetic Giant 13.....	66.8	21.5	91.2	84.0
Super-Crost 680.....	64.4	22.4	85.4	90.9
Super-Crost 690.....	71.6	20.4	91.4	81.0
Super-Crost S6.....	83.2	20.8	94.7	87.8
Tiemann T-62.....	73.1	21.0	83.8	81.0
Tiemann T-68.....	68.6	20.6	89.6	84.8
Todd 424.....	62.0	19.9	86.2	86.3
Todd 453.....	71.9	20.3	95.0	85.6
Todd 611B.....	72.8	18.4	86.7	90.9
Trisler T-31B.....	77.8	22.9	89.4	93.1
Trisler T-32A.....	74.1	24.5	81.4	95.4
Trisler T-32B.....	83.9	21.6	91.2	96.9
Trisler T-35B.....	69.7	22.7	90.5	96.2
Troyer L13.....	69.7	19.9	78.8	93.1
Troyer L14T.....	76.6	18.0	88.1	92.4
Troyer M9A.....	69.4	21.0	88.1	95.4
Troyer M11T.....	73.2	24.0	92.7	96.2
Troyer M13T.....	82.1	22.9	89.8	96.2
Troyer M17T.....	64.4	23.8	81.2	81.8
Troyer M18.....	71.4	22.4	96.6	84.8
Troyer M21.....	72.2	20.4	90.9	85.6
Troyer M22.....	73.4	21.9	96.4	89.3
Van Horn V.H. 97.....	73.8	21.5	84.7	90.1
Van Horn V.H. 100.....	79.1	20.9	87.1	95.4
Wyckoff's W-18.....	76.5	19.6	96.3	85.6
Wyckoff's W-20.....	66.6	22.8	88.7	79.5
Wyckoff's W-25A.....	74.0	22.4	93.3	90.1
Average of all entries.....	74.6	22.5	89.8	89.4
Number in range	Difference necessary for significance			
2.....	N.S.	3.3	N.S.	11.2
3-5.....	N.S.	3.7	N.S.	12.5
6-10.....	N.S.	3.9	N.S.	13.3
11-20.....	N.S.	4.1	N.S.	14.0
Over 20.....	N.S.	4.4	N.S.	14.8

Table 7.—WEST-CENTRAL ILLINOIS: Bowen

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1958-1960				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Whisnand 852.....	119.1	22.7	89.4	93.9
Pioneer 321 (formerly 4549).....	114.6	21.6	92.1	93.9
Prairie Gold D-896 (Dittmer).....	109.8	21.5	94.6	91.6
Plymouth P-97.....	107.0	21.5	95.5	85.5
McAllister 13A.....	106.6	21.6	90.2	85.2
Munson M-119.....	105.3	20.9	88.2	91.2
P.A.G. 444.....	104.5	24.8	92.0	87.6
Whisnand 830.....	103.7	22.8	96.8	92.3
Moews 520.....	103.6	21.2	85.6	96.5
Moews 524.....	103.6	22.0	93.1	87.4
DeKalb 805.....	103.4	22.0	92.0	78.7
DeKalb 633.....	103.2	22.7	95.1	89.9
DeKalb 3x1.....	103.1	22.0	90.3	86.7
DeKalb 803A.....	102.8	24.2	88.3	90.8
DeKalb 640.....	102.4	21.4	98.1	91.4
Troyer M11T.....	102.4	23.0	91.2	96.9
DeKalb 3x4.....	102.2	22.2	92.1	87.9
Prairie Gold D-837 (Dittmer).....	102.0	21.4	95.2	87.8
Canterbury 420.....	101.7	21.1	85.7	92.0
Pioneer 312A.....	101.4	25.1	94.6	93.4
Canterbury 400.....	101.3	19.9	91.7	92.8
Hulting 482.....	100.8	23.1	96.2	87.5
Ainsworth X-100.....	100.7	23.5	94.5	93.7
Morton M404.....	100.4	22.1	97.2	93.0
Morton M-12A.....	100.0	22.2	96.1	93.0
Troyer L13.....	99.2	21.7	91.4	91.7
Troyer M13T.....	98.4	20.8	93.4	90.9
Ainsworth X-98.....	97.4	21.5	95.4	86.9
Prairie Gold D-821 (Dittmer).....	94.9	21.8	86.6	89.5
Troyer L14T.....	90.9	21.4	94.3	87.8
P.A.G. 434.....	90.1	24.1	87.9	78.6
Troyer M9A.....	87.6	22.8	94.6	92.2
Average of all entries.....	102.0	22.2	92.5	89.9
Number in range	Difference necessary for significance			
2.....	N.S.	1.3	N.S.	N.S.
3-5.....	N.S.	1.5	N.S.	N.S.
6-10.....	N.S.	1.6	N.S.	N.S.
Over 10.....	N.S.	1.7	N.S.	N.S.
1960 RESULTS				
Ainsworth X-14-3.....	86.1	21.6	90.1	93.1
Ainsworth X-98.....	91.3	21.6	93.3	81.8
Ainsworth X-100.....	81.2	22.8	96.6	92.4
Bear OK69.....	106.1	24.2	83.2	84.0
Bear OK89.....	102.7	25.0	95.2	81.8
Bear OK96A.....	86.0	23.3	82.4	87.1
Bear Unicorn X600.....	120.0	20.4	89.8	87.8
Bear Unicorn X606.....	84.0	22.6	87.8	84.0
Canterbury 400.....	92.3	19.3	88.2	90.1
Canterbury 420.....	93.3	20.3	86.2	87.1
Cargill 340.....	83.3	22.3	96.0	81.0
Cargill 5741.....	105.4	21.1	88.4	89.3
DeKalb 3x1.....	76.2	23.0	84.1	85.6
DeKalb 3x4.....	83.3	22.0	88.3	91.6
DeKalb 633.....	95.1	22.2	96.3	87.1
DeKalb 640.....	85.6	22.3	97.2	83.3
DeKalb 803.....	90.1	24.2	95.0	85.6
DeKalb 803A.....	97.7	24.6	84.8	90.9
DeKalb 805.....	106.6	20.4	87.1	100.0
DeKalb 869.....	89.1	23.6	89.2	82.5
DeKalb A504.....	93.6	22.3	88.7	88.6
DeKalb X8034.....	101.7	23.1	93.5	92.4
DeKalb X82-030.....	92.2	21.7	92.4	79.5
DeKalb X91-005.....	86.3	23.6	92.0	84.8

(Table is concluded on next page)

Table 7. — Bowen — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Hulting 345.....	100.9	21.4	98.1	85.6
Hulting 482.....	94.7	24.8	94.6	87.8
McAllister 13A.....	97.4	21.6	93.5	77.2
Moews 520.....	91.6	20.6	69.6	96.9
Moews 524.....	104.9	22.5	91.2	90.9
Moews 5097.....	93.4	21.0	92.4	100.0
Moews CB96A.....	101.7	21.3	89.9	90.9
Morton M-6X.....	107.7	21.9	92.4	85.6
Morton M-12A.....	90.9	21.4	97.3	89.3
Morton M-404.....	91.1	21.9	96.5	87.1
Morton M-505.....	80.8	20.0	89.3	80.3
Munson M-119.....	102.2	20.1	82.7	91.6
Northrup King KT632.....	79.3	22.6	91.3	83.3
Northrup King KT645.....	78.5	22.9	95.7	90.1
Northrup King Exp. 6652.....	90.4	23.4	95.8	74.2
Null N-26.....	104.7	22.7	95.8	89.3
Null N-41.....	90.7	23.1	95.9	93.9
P.A.G. 415.....	104.4	22.1	95.2	96.2
P.A.G. 418.....	81.7	22.7	84.7	82.5
P.A.G. 434.....	83.8	22.4	80.6	84.0
P.A.G. 436 (formerly Exp. 10919).....	99.8	23.2	95.8	90.1
P.A.G. 444.....	100.3	24.7	87.1	86.3
P.A.G. SX19 (formerly Exp. 15019).....	112.4	23.9	91.8	82.5
Pioneer 309A.....	101.4	26.2	90.2	93.9
Pioneer 309B.....	87.6	32.3	94.4	93.9
Pioneer 312A.....	86.6	24.2	89.8	90.9
Pioneer 314.....	106.4	21.9	96.0	94.6
Pioneer 321 (formerly 4549).....	103.1	21.8	87.2	95.4
Pioneer 5555.....	77.4	22.6	95.1	91.6
Pioneer 6117.....	94.8	23.2	96.6	87.1
Pioneer 6122.....	100.9	22.7	95.5	82.5
Pioneer 80202.....	108.5	19.0	94.1	89.3
Plymouth P-91X.....	92.6	23.1	94.5	86.3
Plymouth P-97.....	107.7	20.4	95.5	85.6
Prairie Gold D-821 (Dittmer).....	90.1	21.1	78.9	93.1
Prairie Gold D-837 (Dittmer).....	92.0	21.9	91.5	87.1
Prairie Gold D-896 (Dittmer).....	111.1	21.6	94.9	90.1
Troyer L13.....	89.0	21.1	88.1	88.6
Troyer L13T.....	80.3	20.7	93.2	90.1
Troyer L14T.....	82.9	21.2	92.8	84.8
Troyer M9A.....	64.2	23.8	95.9	92.4
Troyer M11T.....	89.2	21.9	91.6	100.0
Troyer M13T.....	94.6	20.2	94.1	90.9
Troyer M17T.....	93.1	23.4	95.4	96.2
Troyer M21.....	106.7	23.4	91.8	87.1
Troyer M22.....	102.7	20.5	93.7	87.8
Whisnand 830.....	86.9	22.0	96.5	90.9
Whisnand 852.....	107.9	22.3	89.2	91.6
Average of all entries.....	94.1	22.3	91.3	88.4
Number in range	Difference necessary for significance			
2.....	N.S.	2.3	10.2	10.5
3-5.....	N.S.	2.6	11.4	11.7
6-10.....	N.S.	2.8	12.1	12.5
11-20.....	N.S.	2.9	12.8	13.2
Over 20.....	N.S.	3.0	13.3	13.7

Table 8. — CENTRAL ILLINOIS: Stanford

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1958-1960				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Pioneer 309A.....	122.1	26.0	95.7	94.2
DeKalb 805.....	121.6	21.2	97.4	92.2
DeKalb 633.....	116.5	21.3	93.0	93.0
DeKalb 640.....	112.9	21.0	95.0	93.6
Pioneer 321 (formerly 4549).....	112.7	21.6	96.1	94.8
DeKalb 837.....	112.7	21.8	88.7	95.2
Pioneer 302.....	112.6	24.2	92.4	96.6
Whisnand 830.....	112.3	21.1	93.9	92.8
Bear Unicorn X606.....	112.1	22.9	96.4	95.1
Stiegelmeier Hi-B-Jack S-600.....	111.6	21.3	88.3	89.1
Whisnand 852.....	110.9	21.5	90.3	92.9
Pioneer 329.....	110.5	19.2	96.1	96.1
Bear Unicorn X600.....	110.4	19.4	88.4	92.6
Bear OK24.....	110.3	20.9	97.1	92.4
Stiegelmeier Hi-B-Jack S-396.....	110.2	21.8	93.6	93.5
P.A.G. 444.....	110.1	23.2	89.3	93.3
P.A.G. 415.....	109.5	22.4	93.2	94.4
Moews 524.....	108.8	20.8	96.0	88.6
Illinois 1421 (Station).....	108.6	20.3	91.2	92.3
Moews CB90A.....	108.6	21.2	95.8	95.9
Stiegelmeier Hi-B-Jack S-300A.....	108.6	22.4	94.8	91.5
Moews CB69A.....	107.7	21.4	96.0	91.0
Troyer L13.....	107.5	20.1	96.5	95.1
Troyer L14T.....	107.3	20.8	94.9	94.8
Trisler T-35B.....	107.2	19.4	92.1	91.2
Troyer M9A.....	106.5	20.9	93.5	90.8
Van Horn V.H. 95-1.....	106.5	21.8	93.0	92.2
Frey F57.....	106.4	19.8	92.7	95.6
Van Horn V.H. 100.....	106.3	19.8	93.6	93.6
Tiemann T-81.....	105.6	22.7	87.8	93.7
Frey 892.....	104.4	19.9	94.6	94.3
Trisler T-32B.....	104.4	20.4	94.1	94.3
Ainsworth X-14-3.....	104.1	21.0	92.5	93.9
Frey 692.....	103.4	19.8	94.3	94.3
Troyer M11T.....	102.7	21.5	91.1	90.7
Trisler T-19B.....	102.4	19.9	92.2	93.7
DeKalb 803A.....	102.4	22.8	90.9	94.5
Mountjoy M-444.....	101.7	20.8	94.8	90.4
Canterbury 420.....	101.6	19.5	93.7	93.3
Illinois 1919 (Station).....	100.1	20.2	90.1	90.4
Ainsworth X-98.....	99.3	21.2	93.4	90.7
Appl A-130.....	96.5	18.8	95.1	95.6
Canterbury 400.....	94.4	19.1	87.5	93.3
Average of all entries.....	107.7	21.1	93.2	93.2
Number in range	Difference necessary for significance			
2.....	N.S.	1.4	N.S.	N.S.
3-5.....	N.S.	1.5	N.S.	N.S.
6-10.....	N.S.	1.6	N.S.	N.S.
11-20.....	N.S.	1.7	N.S.	N.S.
Over 20.....	N.S.	1.7	N.S.	N.S.

(Table is continued on next page)

Table 8. — Stanford — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Ainsworth X-14-3.....	105.6	21.5	96.6	90.1
Ainsworth X-98.....	107.0	20.9	94.2	93.1
Ainsworth X-100.....	96.7	20.9	97.7	99.2
Appl A-130.....	98.6	18.6	99.2	96.2
Appl A-400.....	101.7	19.0	91.8	93.1
Bear OK24.....	108.4	21.3	99.2	93.1
Bear OK69.....	108.0	21.2	91.3	95.4
Bear OK96.....	114.0	22.8	88.4	91.6
Bear OK96A.....	109.7	22.1	93.3	90.9
Bear Unicorn X600.....	109.7	18.3	97.3	94.6
Bear Unicorn X606.....	113.2	23.3	96.1	96.9
Canterbury 400.....	87.5	18.8	97.4	90.9
Canterbury 420.....	109.0	19.1	98.1	92.4
Canterbury 430.....	99.7	20.8	98.3	92.4
Cargill 330.....	114.0	22.1	98.3	91.6
Cargill 340.....	125.0	21.8	98.4	95.4
DeKalb 633.....	131.9	21.4	99.1	92.4
DeKalb 640.....	113.4	21.1	99.1	91.6
DeKalb 803.....	112.6	23.4	95.0	93.1
DeKalb 803A.....	102.0	24.5	93.7	96.2
DeKalb 805.....	127.0	21.5	98.2	91.6
DeKalb 837.....	125.1	21.7	95.2	93.9
DeKalb 869.....	107.5	22.3	97.2	84.0
DeKalb A504.....	111.7	21.5	98.4	100.0
DeKalb A703.....	120.6	23.0	94.6	100.0
DeKalb X8034.....	115.6	22.8	93.1	100.0
DeKalb X82-030.....	116.0	20.9	100.0	91.6
DeKalb X91-005.....	116.7	22.5	95.8	93.9
Frey 692.....	105.2	20.5	96.0	93.1
Frey 892.....	111.0	19.2	96.7	93.9
Frey F57.....	124.2	20.9	100.0	98.4
Illinois 1421 (Station).....	114.2	20.7	97.5	94.6
Illinois 1919 (Station).....	104.9	20.6	98.2	78.7
Illinois 1936 (Station).....	117.0	20.4	93.0	98.4
Illinois 1996 (Station).....	116.0	21.7	93.9	98.4
Illinois 3042 (Station).....	112.7	22.9	96.9	98.4
Illinois 3315A (Station).....	101.4	20.3	97.5	94.6
Illinois 3348 (Station).....	122.0	25.1	98.4	96.2
Indiana 851 (Station).....	107.2	26.5	95.8	79.5
Moews 524.....	117.1	22.2	99.1	81.0
Moews 5097.....	117.2	21.5	99.1	92.4
Moews CB69A.....	124.2	22.1	99.1	92.4
Moews CB90A.....	115.8	22.7	98.3	96.2
Moews CB96A.....	118.6	21.7	95.4	90.9
Monier 6-M-6.....	113.4	21.5	97.7	93.1
Mountjoy M-66.....	101.6	20.0	95.4	99.2
Mountjoy M-100.....	122.4	22.0	99.2	96.2
Mountjoy M-444.....	112.1	22.3	96.5	93.9
Northrup King KT632.....	105.3	22.7	99.1	88.6
Northrup King KT645.....	105.7	22.1	97.7	98.4
Northrup King Exp. 6652.....	115.5	24.4	92.8	84.8

(Table is concluded on next page)

Table 8.—Stanford—concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS—concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
P.A.G. 405.....	124.0	22.0	97.7	96.9
P.A.G. 415.....	106.5	23.6	93.7	98.4
P.A.G. 418.....	106.6	23.3	94.2	93.1
P.A.G. 434.....	118.8	22.4	99.1	90.9
P.A.G. 444.....	115.8	24.1	96.9	99.2
P.A.G. SX9 (formerly Exp. 15009).....	111.2	18.9	100.0	92.4
P.A.G. SX14 (formerly Exp. 15014).....	126.5	23.8	100.0	87.8
P.A.G. SX19 (formerly Exp. 15019).....	137.0	22.5	97.5	92.4
Pioneer 302.....	114.3	25.8	96.2	100.0
Pioneer 309A.....	135.8	29.2	99.2	97.7
Pioneer 309B.....	117.7	32.0	99.1	93.9
Pioneer 312A.....	134.2	23.0	96.7	95.4
Pioneer 314.....	108.0	22.9	100.0	96.9
Pioneer 321.....	107.5	22.8	99.2	96.9
Pioneer 329.....	113.8	19.8	98.4	99.2
Pioneer 5701.....	125.2	23.7	98.4	100.0
Pioneer 6122.....	123.3	23.8	99.2	99.2
Pioneer 80202.....	97.6	20.2	96.8	97.7
Pioneer X23.....	124.4	22.6	96.7	94.6
Schwenk S-27-1.....	103.2	20.3	97.5	90.9
Stiegelmeier Hi-B-Jack S-300A.....	128.2	23.1	98.4	93.9
Stiegelmeier Hi-B-Jack S-396.....	118.2	21.1	96.7	93.1
Stiegelmeier Hi-B-Jack S-600.....	133.0	23.5	100.0	91.6
Tiemann T-81.....	96.5	23.5	91.3	96.9
Todd 635.....	105.4	21.6	94.8	81.0
Todd 645.....	97.9	22.1	95.9	93.1
Todd 840.....	102.7	23.9	94.3	95.4
Todd 855.....	124.8	21.2	98.2	87.8
Tomco 838.....	101.8	22.9	98.3	88.6
Tomco 882.....	96.3	22.3	92.3	98.4
Trisler T-19B.....	105.7	19.9	97.6	96.2
Trisler T-31B.....	124.5	22.5	94.5	94.6
Trisler T-32A.....	130.0	21.7	96.0	93.9
Trisler T-32B.....	107.1	20.5	99.2	93.9
Trisler T-35B.....	116.6	20.2	94.3	94.6
Troyer L13.....	112.7	20.5	98.4	95.4
Troyer L13T.....	82.7	21.9	98.1	79.5
Troyer L14T.....	111.1	21.9	96.7	96.2
Troyer M9A.....	111.4	21.6	94.4	92.4
Troyer M11T.....	113.1	21.3	98.3	93.1
Troyer M13T.....	103.2	20.2	96.9	99.2
Troyer M17T.....	100.6	22.8	100.0	87.8
Troyer M21.....	107.8	22.5	98.3	87.8
Troyer M22.....	108.5	20.9	100.0	91.6
Van Horn V.H. 95-1.....	102.1	21.9	96.1	90.9
Van Horn V.H. 100.....	112.6	19.4	96.8	97.7
Van Horn V.H. 111.....	123.7	20.6	96.1	94.6
Whisnand 830.....	117.3	22.1	96.8	95.4
Whisnand 852.....	109.6	21.5	96.8	94.6
Average of all entries.....	112.7	22.1	97.0	94.2
Number in range	Difference necessary for significance			
2.....	18.2	1.4	5.0	8.8
3-5.....	20.3	1.5	5.6	9.8
6-10.....	21.6	1.6	6.0	10.4
11-20.....	22.8	1.7	6.3	11.0
Over 20.....	24.1	1.8	6.7	11.7

Table 9. — EAST-CENTRAL ILLINOIS: Urbana

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1956-1960				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Bear OK96.....	128.7	21.6	96.7	89.7
Whisnand 852.....	127.5	21.7	94.3	92.4
Stiegelmeier Hi-B-Jack S-600.....	126.3	20.5	92.8	91.4
Appl A-159.....	126.1	20.5	93.5	93.4
Moews 524A.....	124.7	21.3	95.5	93.2
Pioneer 312A.....	124.5	22.9	95.8	94.1
Stiegelmeier Hi-B-Jack S-396.....	124.4	22.4	96.1	90.6
Frey 892.....	123.0	19.5	95.6	93.8
Frey 692.....	122.8	19.2	96.1	93.0
Holmes 39.....	122.1	20.1	91.9	94.3
Van Horn V.H. 100.....	120.9	19.0	96.3	89.8
Appl A-130.....	120.8	18.6	93.8	93.6
Troyer M11T.....	120.1	20.1	94.4	92.7
Whisnand 830.....	119.8	20.6	96.3	90.7
Canterbury 400.....	119.5	19.0	94.4	93.8
Trisler T-32B.....	119.5	20.1	96.9	91.8
Moews 523.....	119.2	19.9	93.3	93.0
Canterbury 420.....	119.1	18.3	93.2	92.4
P.A.G. 444.....	119.1	23.4	97.0	90.8
Ainsworth X-14-3.....	118.8	19.5	93.0	93.1
Van Horn V.H. 95-1.....	117.8	22.1	96.5	90.1
Trisler T-33B.....	117.4	19.7	94.8	90.1
Tiemann T-72.....	117.2	19.7	95.9	93.1
AES 805.....	117.1	20.5	97.3	93.2
Troyer L13.....	117.0	19.3	96.3	91.9
Van Horn V.H. 97.....	115.6	19.5	97.5	93.4
Trisler T-19B.....	115.5	18.6	93.9	92.7
Troyer L14T.....	115.5	20.9	96.9	93.4
Average of all entries.....	127.5	21.7	95.2	92.4
Number in range	Difference necessary for significance			
2.....	8.0	1.3	N.S.	N.S.
3-5.....	9.0	1.5	N.S.	N.S.
6-10.....	9.5	1.6	N.S.	N.S.
11-20.....	10.0	1.6	N.S.	N.S.
Over 20.....	10.1	1.6	N.S.	N.S.

(Table is continued on next page)

Table 9. — Urbana — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1958-1960				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Bear Unicorn X600.....	124.3	20.8	83.4	92.6
DeKalb 805.....	124.3	21.5	98.7	93.5
Stiegelmeier Hi-B-Jack S-600.....	123.2	21.2	90.6	92.9
Whisnand 852.....	121.6	22.4	90.9	90.7
Van Horn V.H. 111.....	119.6	21.1	88.2	94.1
Stiegelmeier Hi-B-Jack S-396.....	118.2	23.1	95.2	89.9
Appl A-159.....	117.0	22.5	91.4	93.7
Illinois 1996 (Pfeifer).....	116.0	22.8	95.3	93.4
Pioneer 312A.....	116.0	22.8	94.0	94.2
Bear OK96.....	115.7	22.4	95.1	88.7
Holmes 39.....	115.2	21.3	89.5	94.4
Moews 524A.....	114.4	22.4	96.5	93.7
Illinois 1421 (Pfeifer).....	114.3	20.7	94.9	95.4
Frey 892.....	113.4	21.2	95.1	93.6
Pioneer 321 (formerly 4549).....	113.3	21.0	95.8	95.6
Pioneer 319.....	113.1	20.4	96.3	94.7
Frey 692.....	112.3	20.6	96.2	94.0
Crib Filler 131.....	112.1	22.5	94.2	93.9
P.A.G. 415.....	112.0	21.9	97.3	89.1
Troyer M11T.....	111.7	21.9	92.3	93.1
DeKalb 640.....	111.5	20.6	96.9	92.9
Appl A-130.....	111.1	20.6	92.0	95.4
DeKalb 3X1.....	111.1	20.9	91.2	90.8
Troyer M9A.....	110.8	22.5	94.5	91.6
Ainsworth X-98.....	110.7	20.5	94.5	91.2
Ainsworth X-14-3.....	110.6	21.2	92.7	93.6
Whisnand 830.....	110.4	21.8	95.5	91.4
Van Horn V.H. 100.....	109.8	20.1	95.2	88.1
Trisler T-35B.....	109.7	21.2	93.9	93.6
Canterbury 400.....	109.6	20.0	93.9	93.9
Moews 523.....	109.6	20.9	90.8	92.7
Canterbury 420.....	109.0	19.6	93.3	89.9
Tiemann T-72.....	109.0	21.2	94.1	94.1
Trisler T-32B.....	109.0	21.3	95.8	91.7
DeKalb 633.....	108.9	21.9	91.8	90.0
DeKalb 803A.....	108.3	22.9	92.1	91.2
AES 805 (Stone '58, '59; Pfeifer '60).....	107.6	21.7	97.5	93.4
P.A.G. 444.....	107.5	24.5	93.7	91.1
Troyer L13.....	107.3	21.1	95.2	92.3
Van Horn V.H. 95-1.....	107.2	22.9	96.9	89.9
Bear OK55.....	106.9	21.9	95.7	91.1
Illinois 1332 (Pfeifer).....	106.8	20.8	96.3	92.4
Trisler T-19B.....	106.0	19.9	92.5	91.7
Trisler T-33B.....	106.0	20.7	93.3	85.8
Van Horn V.H. 97.....	105.9	21.0	97.2	93.2
Pioneer 309A.....	105.8	24.5	95.4	92.3
Frey F57.....	105.7	21.4	94.3	94.8
Crib Filler 124.....	105.0	21.1	91.2	88.9
Troyer L14T.....	104.7	22.0	96.6	92.9
Cargill P1733.....	103.6	21.1	97.5	89.9
Ainsworth X-100.....	102.4	21.7	92.9	94.1
Average of all entries.....	111.2	21.5	94.0	92.3
Number in range.....	Difference necessary for significance			
2.....	11.6	1.4	N.S.	N.S.
3-5.....	13.0	1.5	N.S.	N.S.
6-10.....	13.8	1.6	N.S.	N.S.
11-20.....	14.4	1.6	N.S.	N.S.
Over 20.....	14.7	1.6	N.S.	N.S.

(Table is continued on next page)

Table 9. — Urbana — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
AES 702 (Pfeifer).....	104.5	19.3	86.8	92.4
AES 805 (Pfeifer).....	94.5	20.8	97.4	89.3
Ainsworth X-14-3.....	114.4	19.5	92.2	98.4
Ainsworth X-98.....	111.5	18.9	94.5	95.4
Ainsworth X-100.....	96.6	19.3	84.7	91.6
Appl A-130.....	103.5	19.1	91.1	93.9
Appl A-159.....	114.6	21.9	84.3	95.4
Appl A-400.....	100.8	20.2	90.2	93.9
Appl A-440.....	96.4	22.6	90.4	95.4
Bear OK44.....	114.5	21.7	91.0	92.4
Bear OK55.....	93.2	20.3	93.1	100.0
Bear OK96.....	115.1	20.4	87.4	96.2
Bear OK96A.....	118.0	19.4	78.6	93.9
Bear OK878.....	111.7	19.4	91.0	93.1
Bear Unicorn X600.....	102.7	18.4	72.1	94.6
Bear Unicorn X606.....	116.7	21.9	96.1	98.4
Canterbury 400.....	106.4	18.6	93.8	99.2
Canterbury 420.....	100.6	18.1	84.1	92.4
Cargill 5752.....	97.4	20.0	95.4	90.1
Cargill P1733.....	86.2	20.4	97.6	92.4
Crib Filler 70.....	107.4	19.8	91.7	91.6
Crib Filler 77.....	97.0	20.1	76.5	88.6
Crib Filler 116.....	115.8	19.6	91.5	96.2
Crib Filler 123.....	106.3	21.8	97.6	98.4
Crib Filler 124.....	93.8	18.5	80.6	89.3
Crib Filler 131.....	104.9	20.9	90.6	98.4
DeKalb 3X1.....	102.1	19.6	80.6	90.9
DeKalb 633.....	100.1	21.2	92.3	90.1
DeKalb 640.....	102.7	18.1	92.8	93.9
DeKalb 803.....	105.9	21.6	92.9	97.7
DeKalb 803A.....	112.2	21.8	87.4	96.9
DeKalb 805.....	119.0	19.5	96.1	94.6
DeKalb 869.....	95.9	20.0	91.3	88.6
DeKalb 898A.....	102.5	19.3	75.4	97.7
DeKalb A504.....	108.3	19.9	94.4	95.4
DeKalb A703.....	108.3	22.3	91.2	95.4
DeKalb X8034.....	108.4	19.2	83.2	95.4
DeKalb X91-005.....	125.3	20.3	89.5	92.4
Embro 45LE.....	107.1	23.7	91.4	96.9
Frey 692.....	111.9	19.3	97.6	95.4
Frey 892.....	111.7	20.4	89.2	98.4
Frey F57.....	106.8	18.9	92.8	96.9
Holmes 39.....	110.2	18.3	79.5	98.4
Illinois 1332 (Pfeifer).....	99.6	19.1	95.8	93.1
Illinois 1421 (Pfeifer).....	109.9	18.1	89.7	96.2
Illinois 1992 (Pfeifer).....	95.9	19.1	95.7	88.6
Illinois 1996 (Pfeifer).....	109.5	20.7	93.9	89.3
Illinois 1996 (Stone).....	102.9	18.1	87.3	95.4
Indiana 851 (Station).....	104.4	20.4	93.1	96.2
Indiana 909 (Princeton).....	96.4	20.0	84.4	92.4
Moews 523.....	106.5	19.5	92.4	100.0
Moews 524A.....	106.4	20.8	93.6	96.2
Moews 5097.....	106.6	19.1	93.7	96.2
Moews CB96A.....	101.0	20.1	97.5	92.4
Monier 6-M-6.....	114.2	19.6	93.7	97.7
Mountjoy M-33.....	107.7	20.0	95.4	96.9
Muncy Chief H522.....	103.9	19.1	88.6	100.0
Muncy Chief H780.....	89.2	20.4	93.9	100.0
Muncy Chief H802.....	92.6	19.0	98.4	100.0
Northrup King KT632.....	102.5	17.9	91.6	86.3
Northrup King KT645.....	104.1	19.5	98.4	95.4
Northrup King Exp. 6652.....	116.2	20.9	92.0	87.1

(Table is concluded on next page)

Table 9. — Urbana — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
P.A.G. 405.....	117.3	19.3	98.4	98.4
P.A.G. 415.....	109.3	20.2	98.0	84.0
P.A.G. 418.....	114.1	20.5	96.8	93.9
P.A.G. 434.....	101.5	19.8	92.8	96.2
P.A.G. 436 (formerly Exp. 10919).....	107.5	22.0	83.7	97.7
P.A.G. 444.....	113.2	23.5	93.1	99.2
P.A.G. SX14 (formerly Exp. 15014).....	111.2	20.5	100.0	86.3
P.A.G. SX19 (formerly Exp. 15019).....	112.6	20.6	86.9	92.4
Pfeifer Exp. 101.....	88.7	19.3	96.2	95.4
Pioneer 302.....	98.9	21.9	87.3	95.4
Pioneer 309A.....	104.5	22.9	91.1	94.6
Pioneer 309B.....	116.3	24.7	96.9	96.9
Pioneer 312A.....	124.7	20.8	93.0	98.4
Pioneer 319 (formerly 2990).....	118.1	17.6	96.9	98.4
Pioneer 321 (formerly 4549).....	115.2	19.9	92.4	96.2
Pioneer 3756A.....	106.8	18.4	91.8	91.6
Pioneer 5625.....	104.8	21.3	95.9	95.4
Pioneer 6201.....	125.7	17.8	96.1	97.7
Pioneer 6261.....	122.4	20.4	96.2	99.2
Pioneer 80202.....	117.9	17.1	93.9	99.2
Pioneer X23.....	114.8	19.2	98.3	93.9
Princeton 8-A.....	99.9	19.6	94.1	94.6
Princeton 685.....	104.6	19.7	99.1	91.6
Princeton 888.....	110.6	19.1	88.5	99.2
Princeton 890.....	115.4	20.0	94.4	96.2
Princeton 990W.....	103.6	20.0	87.6	90.1
Steckley's Genetic Giant 12.....	98.1	18.5	96.7	84.8
Steckley's Genetic Giant 13.....	102.0	20.0	93.7	94.6
Stiegelmeier Hi-B-Jack S-396.....	109.8	20.4	87.7	92.4
Stiegelmeier Hi-B-Jack S-600.....	123.2	21.2	91.9	93.9
Stone 3049E.....	87.0	19.2	89.7	84.8
Super-Crost 690 (formerly C2F).....	105.8	18.9	95.1	94.6
Super-Crost 851 (formerly C1F).....	106.5	21.4	87.7	93.9
Tiemann T-72.....	111.8	20.4	89.3	100.0
Todd 424.....	87.4	17.6	94.7	86.3
Todd 602.....	105.3	20.0	94.5	97.7
Todd 630.....	113.8	18.5	94.3	96.2
Todd 635.....	99.2	18.9	98.1	93.1
Todd 645.....	99.9	19.2	94.2	89.3
Trisler T-19B.....	102.5	17.3	84.4	96.9
Trisler T-31B.....	117.7	21.1	80.1	96.2
Trisler T-32A.....	111.8	20.9	90.0	90.9
Trisler T-32B.....	104.0	19.5	92.3	89.3
Trisler T-33B.....	102.2	17.3	85.9	91.6
Trisler T-35B.....	108.4	21.4	91.6	100.0
Troyer L13.....	107.1	18.8	90.6	94.6
Troyer L14T.....	91.0	20.9	93.7	95.4
Troyer M9A.....	96.7	21.3	93.5	91.6
Troyer M11T.....	108.3	19.9	92.9	96.2
Troyer M17T.....	98.7	19.8	96.5	91.6
Troyer M21.....	101.2	19.4	96.1	98.4
Troyer M22.....	112.0	19.6	98.4	93.9
Van Horn V.H. 95-1.....	95.3	20.9	97.6	93.9
Van Horn V.H. 97.....	99.3	18.9	97.6	95.4
Van Horn V.H. 100.....	111.2	18.3	96.7	96.9
Van Horn V.H. 111.....	124.2	18.9	88.5	93.1
Whisnand 830.....	98.5	20.6	94.5	97.7
Whisnand 850.....	108.9	21.1	79.0	96.2
Whisnand 852.....	122.1	19.9	88.7	84.8
Average of all entries.....	106.5	19.9	91.6	94.3
Number in range				
2.....	19.0	1.9	11.3	8.5
3-5.....	21.2	2.1	12.6	9.4
6-10.....	22.6	2.3	13.4	10.0
11-20.....	23.8	2.4	14.2	10.6
Over 20.....	25.2	2.5	15.0	11.2
Difference necessary for significance				

Table 10.—WEST SOUTH-CENTRAL ILLINOIS: Greenfield

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1956-1960				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Pocklington P-78A.....	101.3	19.4	90.2	81.6
Pocklington P-75A.....	101.2	18.5	87.9	83.9
Bear OK96.....	101.2	19.2	92.0	90.5
Pioneer 316.....	98.5	17.5	91.5	87.4
Pioneer 302.....	97.7	20.3	90.7	90.1
Canterbury 420.....	97.5	16.4	91.4	89.1
Canterbury 400.....	97.3	16.8	92.0	91.3
Ainsworth X-14-A.....	96.6	19.4	84.3	95.3
Whisnand 830.....	96.5	17.4	93.1	84.8
Whisnand 852.....	96.2	19.5	89.8	82.4
Moews 523.....	95.3	18.5	89.0	89.4
Average of all entries.....	98.1	18.4	90.2	87.8
Number in range	Difference necessary for significance			
2.....	N.S.	1.1	N.S.	N.S.
Over 2.....	N.S.	1.3	N.S.	N.S.
SUMMARY: 1958-1960				
DeKalb 805.....	106.9	18.9	88.6	88.2
Moews 524.....	101.8	18.5	88.8	89.0
Whisnand 834.....	98.5	19.0	88.7	90.1
Ainsworth X-100.....	97.4	20.2	92.8	94.0
Bear OK96.....	96.5	19.8	88.6	87.3
Moews CB69A.....	94.7	18.2	92.4	88.7
Bear OK878.....	94.6	19.5	91.4	81.0
Van Horn V.H. 111.....	94.3	18.7	73.3	88.2
Pocklington P-78A.....	94.0	20.4	88.0	82.8
Pocklington P-75A.....	93.7	18.0	81.5	80.4
Pioneer 309B.....	93.3	24.0	89.7	87.5
DeKalb 640.....	92.6	18.6	93.9	80.6
Illinois 2214W (Station).....	92.3	20.9	84.0	89.8
Cargill 320.....	91.8	18.4	88.9	89.4
Moews 523.....	90.9	19.2	84.3	89.7
Whisnand 852.....	90.1	19.9	85.3	77.6
Pioneer 319.....	89.5	18.0	83.5	86.3
Canterbury 420.....	89.3	17.5	86.2	84.0
Pioneer 302.....	88.7	20.7	86.4	86.7
DeKalb 803A.....	88.7	20.7	78.2	86.4
Whisnand 830.....	88.5	18.2	89.5	79.4
Canterbury 400.....	87.9	17.6	88.6	88.1
Pioneer 316.....	87.2	18.6	87.2	81.1
DeKalb 3x4.....	86.8	19.1	79.5	86.0
Van Horn V.H. 95-1.....	86.0	19.2	86.0	85.3
Ainsworth X-14-A.....	85.1	20.3	79.8	93.9
P.A.G. 434.....	83.9	20.7	85.7	79.1
Average of all entries.....	92.0	19.4	86.3	85.9
Number in range	Difference necessary for significance			
2.....	N.S.	1.3	N.S.	N.S.
3-5.....	N.S.	1.4	N.S.	N.S.
6-10.....	N.S.	1.5	N.S.	N.S.
Over 10.....	N.S.	1.6	N.S.	N.S.
1960 RESULTS				
Ainsworth X-14-A.....	77.9	21.5	92.3	98.4
Ainsworth X-98.....	84.1	21.8	95.6	92.4
Ainsworth X-100.....	93.9	23.6	94.5	93.1
Bear OK55.....	85.3	22.1	92.6	93.1
Bear OK69.....	76.1	23.6	84.7	88.6
Bear OK89.....	72.2	25.4	92.8	96.2
Bear OK96.....	91.0	22.5	86.8	88.6
Bear OK878.....	88.0	23.0	98.3	76.5
Bear Unicorn X606.....	103.4	22.4	93.7	93.9
Canterbury 400.....	91.9	20.5	96.9	95.4
Canterbury 420.....	98.9	20.0	91.7	95.4
Cargill 320.....	83.1	22.0	89.6	96.2
Cargill 380.....	83.4	23.9	91.0	85.6

(Table is concluded on next page)

Table 10. — Greenfield — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
DeKalb 3x4.....	73.4	22.6	84.5	89.3
DeKalb 640.....	94.4	21.2	94.6	75.0
DeKalb 803.....	66.5	25.4	94.6	81.0
DeKalb 803A.....	83.2	24.8	88.5	87.1
DeKalb 805.....	107.7	21.5	98.9	87.1
DeKalb 812.....	90.4	22.6	93.6	93.9
DeKalb 869.....	69.6	22.1	97.2	84.8
DeKalb 898A.....	90.7	22.8	89.2	93.1
DeKalb A504.....	82.2	21.0	97.4	90.9
DeKalb X8034.....	83.3	22.7	94.3	84.0
DeKalb X72-194.....	85.3	23.1	88.5	86.3
DeKalb X91-005.....	89.4	21.9	96.5	80.3
Illinois 1332 (Station).....	83.3	19.6	92.8	91.6
Illinois 1421 (Station).....	91.6	21.2	87.7	90.1
Illinois 1996 (Stone).....	80.6	21.2	98.0	78.7
Illinois 2214W (Station).....	72.5	24.1	85.1	91.6
Illinois 3343 (Station).....	97.1	22.9	98.1	83.3
Illinois 3348 (Station).....	71.4	23.5	95.7	88.6
Illinois 3360 (Station).....	77.6	21.9	90.2	92.4
Illinois 8001 (Station).....	105.0	20.3	92.0	81.8
Moews 523.....	75.8	21.9	84.9	87.1
Moews 524.....	102.2	22.1	90.4	93.9
Moews 5094.....	65.6	24.3	90.0	94.6
Moews CB69A.....	98.4	22.0	95.1	91.6
Moews CB96A.....	63.8	22.9	94.2	88.6
Morton M-6X.....	95.4	20.4	91.5	97.7
Morton M-12A.....	97.6	23.3	98.1	81.0
P.A.G. 418.....	90.3	22.2	92.7	81.0
P.A.G. 434.....	84.9	24.1	89.0	90.9
P.A.G. 436 (formerly Exp. 10919).....	82.1	27.1	93.6	87.1
P.A.G. 444.....	93.8	22.2	94.9	87.1
Pioneer 302.....	81.8	22.9	90.3	80.3
Pioneer 309A.....	74.1	28.0	86.8	90.9
Pioneer 309B.....	78.7	27.7	94.0	89.3
Pioneer 312A.....	86.6	24.8	92.2	75.0
Pioneer 316.....	82.7	21.3	91.6	78.0
Pioneer 319 (formerly 2990).....	73.3	20.7	90.4	87.8
Pioneer 321 (formerly 4549).....	74.5	24.5	97.2	84.8
Pioneer 6122.....	102.5	24.5	98.1	87.8
Pioneer 6261.....	85.2	21.8	90.3	84.8
Pioneer 80203.....	85.9	22.8	92.9	96.2
Pioneer X23.....	88.3	22.0	87.6	83.3
Pocklington P-70.....	83.5	21.3	91.8	71.2
Pocklington P-75A.....	94.9	21.5	88.6	80.3
Pocklington P-78A.....	87.0	23.1	89.0	81.8
Pocklington P-84.....	88.8	20.9	90.8	74.2
Princeton 8-A.....	73.1	21.5	98.4	79.5
Princeton 685.....	86.7	22.8	96.5	81.8
Princeton 890.....	86.5	22.4	98.3	80.3
Super-Crost 695 (formerly C2F).....	91.1	21.6	94.6	82.5
Super-Crost 851 (formerly C1F).....	78.6	23.2	87.9	74.2
Stull's 100YA.....	93.9	22.4	91.5	81.8
Stull's 100YN.....	84.5	24.0	90.6	87.8
Stull's 101YA.....	80.4	21.4	93.0	88.6
Van Horn V.H. 95-1.....	80.3	21.7	91.1	91.6
Van Horn V.H. 111.....	81.8	21.3	92.8	87.1
Whisnand 830.....	93.0	21.6	96.6	87.1
Whisnand 834.....	95.1	22.1	93.1	96.9
Whisnand 852.....	97.0	23.9	95.0	86.0
Average of all entries.....	85.6	22.6	92.5	86.9
Number in range	Difference necessary for significance			
2.....	20.5	2.4	8.4	N.S.
3-5.....	22.8	2.7	9.4	N.S.
6-10.....	24.3	2.9	10.0	N.S.
11-20.....	25.6	3.0	10.5	N.S.
Over 20.....	27.1	3.2	11.1	N.S.

Table 11. — SOUTHERN ILLINOIS: Brownstown

1960 Nominees	
Ainsworth Goldline 378	Munson M-119
Ainsworth X-14-3	P.A.G. 434
Ainsworth X-14-A	P.A.G. 436 (formerly Exp. 10919)
Ainsworth X-98	P.A.G. 444
Ainsworth X-100	P.A.G. 631W
Bear OK69	P.A.G. 633W
Bear OK89	Pioneer 302
Bear OK96A	Pioneer 309A
Bear OK878	Pioneer 309B
Bear Unicorn X600	Pioneer 319 (formerly 2990)
Canterbury 400	Pioneer 321 (formerly 4549)
Canterbury 420	Pioneer 6122
Cargill 340	Pioneer 6201
Cargill 380	Pioneer 6261
Crib Filler 116	Pioneer 80203
Crib Filler 124	Pioneer X23
Crib Filler 131	Princeton 8-A
Crib Filler 138	Princeton 685
DeKalb 3x1	Princeton 888
DeKalb 803	Princeton 890
DeKalb 803A	Princeton 990W
DeKalb 805	Schenk's S-70A
DeKalb 856	Schenk's S-73
DeKalb 886	Schenk's S-80A
DeKalb 925W	Schenk's S-82
DeKalb A715	Stull's 100YA
DeKalb X82-019	Stull's 100YN
DeKalb X8034	Stull's 101YA
Illinois 1511 (Station)	Tiemann T-72
Indiana 909 (Princeton)	Tiemann T-78
Jones WJ80	Van Horn V.H. 76
Moews 523	Van Horn V.H. 95-1
Moews 525	Van Horn V.H. 100
Moews 5097	Van Horn V.H. 101
Moews CB70A	Whisnand 830
Moews CB96A	Whisnand 852

(Data insufficient for analysis.)

Table 12. — EXTREME SOUTHERN ILLINOIS: Wolf Lake

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1956-1960				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Stull's 400W.....	103.3	17.4	97	91
DeKalb 1023.....	101.2	19.1	91	91
Ainsworth X-14-A.....	96.5	17.0	94	90
Van Horn V.H. 55W.....	95.5	18.2	92	90
Whisnand 830.....	95.3	17.1	96	91
Pioneer 302.....	93.1	17.7	98	95
DeKalb 925W.....	93.1	18.3	96	90
Illinois 1570 (Station).....	92.6	16.2	97	92
P.A.G. 631W.....	92.5	18.2	96	88
Whisnand 851.....	91.1	17.8	97	90
Illinois 2214W (Station).....	90.8	17.6	93	88
P.A.G. 485.....	90.3	17.8	95	90
Average of all entries.....	94.6	19.4	95	91
SUMMARY: 1958-1960				
Stull's 400W.....	95.1	18.7	94.7	91.7
Pioneer 309B.....	94.0	20.3	97.0	90.0
Illinois 1851 (Station).....	93.5	17.8	94.0	91.0
DeKalb 1023.....	91.9	20.2	84.7	88.7
Pioneer 309A.....	91.8	19.6	99.0	89.0
Moews CB98W.....	91.7	19.7	98.0	93.0
Whisnand 852.....	91.3	18.3	96.0	91.0
DeKalb 1028.....	91.0	20.5	86.0	89.0
DeKalb 805.....	88.4	18.5	96.0	90.0
Pioneer 319.....	88.2	16.8	95.0	92.0
Ainsworth X-14-A.....	87.7	17.7	92.7	92.3
Van Horn V.H. 55W.....	86.7	19.5	91.7	92.0
Whisnand 830.....	86.2	17.8	94.0	92.7
Moews CB100.....	85.7	18.6	96.0	92.0
Pioneer 302.....	84.5	18.5	97.3	93.7
Illinois 1570 (Station).....	84.4	16.9	96.0	96.0
Whisnand 851.....	84.3	18.7	94.7	87.0
DeKalb 925W.....	83.9	19.3	93.3	89.7
P.A.G. 485.....	82.7	19.0	91.3	90.0
P.A.G. 631W.....	82.0	19.6	94.0	85.7
Van Horn V.H. 100.....	78.9	16.9	93.0	88.0
Illinois 2214W (Station).....	78.9	18.8	90.3	86.3
P.A.G. 434.....	77.8	18.2	94.0	86.0
Average of all entries.....	87.0	18.7	93.9	90.3

(Table is concluded on next page)

Table 12 — Wolf Lake — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Ainsworth X-14-A.....	63.2	18.1	90.5	86.3
Ainsworth X-100.....	63.4	18.9	94.7	87.8
Appl A-440.....	82.2	20.1	96.2	86.3
DeKalb 805.....	77.0	18.7	96.3	84.0
DeKalb 869.....	69.4	19.0	98.1	82.5
DeKalb 886.....	69.6	18.9	96.2	92.4
DeKalb 925W.....	78.6	20.7	91.2	91.6
DeKalb 1002.....	44.7	20.8	93.4	78.8
DeKalb 1023.....	92.2	21.6	84.0	84.0
DeKalb 1028.....	69.2	21.3	79.9	78.7
DeKalb A715.....	84.3	19.2	93.9	87.1
DeKalb X72-159.....	61.2	20.4	85.0	62.1
DeKalb X82-028.....	61.9	17.4	97.6	87.8
DeKalb X82-029.....	84.1	18.6	87.9	89.3
DeKalb X82-134.....	74.3	21.3	93.9	86.3
Embro 107W.....	68.1	21.3	100.0	68.1
Illinois 1349 (Station).....	70.0	18.2	90.0	90.1
Illinois 1570 (Station).....	68.0	17.1	92.7	95.4
Illinois 1851 (Station).....	76.7	17.9	92.1	89.3
Illinois 2214W (Station).....	64.3	19.8	96.9	72.7
Illinois 3348 (Station).....	97.9	20.0	89.5	93.9
Indiana 851 (Station).....	74.8	18.7	92.3	89.3
Indiana 909 (Princeton).....	80.3	19.1	99.1	85.6
Jones WJ80.....	72.8	18.2	96.6	89.3
Moews 5097.....	63.0	17.4	99.0	80.3
Moews CB96A.....	60.8	17.8	99.0	85.6
Moews CB98W.....	71.8	20.7	97.4	89.3
Moews CB100.....	76.2	19.3	93.7	85.6
P.A.G. 434.....	76.0	18.6	97.3	87.8
P.A.G. 436 (formerly Exp. 10919).....	81.0	20.5	99.2	90.9
P.A.G. 444.....	99.8	19.8	100.0	90.9
P.A.G. 480.....	57.5	24.2	96.3	87.1
P.A.G. 485.....	82.3	19.5	90.3	85.6
P.A.G. 631W.....	77.5	19.9	93.8	86.3
Pioneer 302.....	77.2	19.5	97.5	89.3
Pioneer 309A.....	79.7	21.7	99.1	84.0
Pioneer 309B.....	79.9	22.6	100.0	83.3
Pioneer 312A.....	88.8	19.5	97.5	91.6
Pioneer 319 (formerly 2990).....	83.3	16.5	92.6	90.9
Pioneer 6122.....	88.8	18.7	98.4	86.3
Pioneer 6201.....	76.4	17.5	92.3	93.9
Pioneer 6261.....	81.1	17.8	87.1	87.8
Pioneer 80203.....	72.5	17.9	94.5	87.8
Pioneer X23.....	62.9	18.1	98.2	90.9
Princeton 8-A.....	80.4	18.2	99.1	87.8
Princeton 685.....	81.6	19.3	96.6	90.1
Princeton 888.....	77.3	18.4	92.0	84.0
Princeton 890.....	81.0	19.6	97.6	87.8
Princeton 990W.....	82.5	18.6	94.1	87.8
Schenk's S-86.....	72.0	19.1	90.8	76.5
Schenk's S-87.....	62.2	19.9	96.0	74.2
Schenk's S-90W.....	91.4	19.5	96.5	90.1
Schenk's S-99W.....	95.3	18.8	98.4	94.6
Stull's 100YA.....	78.5	18.2	97.3	86.3
Stull's 101YA.....	85.0	21.1	95.7	90.1
Stull's 400W.....	89.2	19.6	96.6	94.6
Stull's 400 WR.....	77.1	18.8	96.8	75.7
Stull's 500W.....	85.7	18.5	97.3	89.3
Van Horn V.H. 55W.....	69.5	20.4	90.4	93.1
Van Horn V.H. 100.....	72.3	17.0	92.7	84.8
Whisnand 830.....	74.4	18.3	90.5	88.6
Whisnand 851.....	67.6	19.7	90.9	76.5
Whisnand 852.....	90.4	18.9	95.6	91.6
Whisnand 917W.....	65.7	19.1	97.2	77.2
Average of all entries.....	76.0	19.3	94.6	86.2
Number in range	Difference necessary for significance			
2.....	N.S.	1.3	8.9	11.4
3-5.....	N.S.	1.4	10.0	12.7
6-10.....	N.S.	1.5	10.6	13.5
11-20.....	N.S.	1.6	11.2	14.2
Over 20.....	N.S.	1.6	11.6	14.8

Table 13. — INCREASED PLANTING RATES

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
NORTHERN ILLINOIS: DeKalb — 24,000 plants per acre				
	bu.	perct.	perct.	perct.
Summary: 1959-1960				
P.A.G. SX9 (Exp. 15018).....	117.4	25.7	89.6	89.0
DeKalb 640.....	116.1	28.5	90.1	90.2
Illinois 1996 (Station).....	114.8	26.6	80.8	93.2
Moews 48A.....	113.9	27.6	89.9	91.6
Doubet D413.....	113.4	27.6	88.7	82.5
DeKalb 440.....	113.3	26.5	89.7	92.8
P.A.G. 234.....	113.2	25.3	87.8	94.2
Wyffels W-600.....	113.2	27.0	87.3	96.3
Illinois (Hy2xOh7) (Station).....	112.2	26.9	79.1	87.2
Pioneer 345.....	110.0	24.3	81.4	94.7
Moews 505A.....	107.7	25.5	88.5	90.9
Tomco 619.....	106.6	27.0	90.7	95.0
Hulting 242.....	105.2	25.9	89.5	89.9
Pioneer 329.....	104.8	27.0	87.1	90.0
DeKalb 633.....	104.6	28.2	87.1	90.5
Pioneer 371.....	103.9	22.2	87.0	90.4
DeKalb 444.....	100.7	26.4	91.4	91.1
Steckley's Genetic Giant 4.....	100.2	24.5	84.9	88.3
Sieben S-580.....	100.0	27.7	90.9	85.7
Moews 500A.....	97.6	28.1	90.6	89.3
DeKalb 400.....	96.2	26.3	85.6	86.5
Hulting 245.....	95.1	23.2	89.2	88.4
Sieben S-340.....	93.1	25.4	86.1	88.5
DeKalb 414.....	92.4	24.9	87.7	91.3
Illinois (WF9xC103) (Station).....	71.7	27.1	93.0	80.4
Average of all entries.....	104.7	26.2	87.7	89.9
Number in range	Difference necessary for significance			
2.....	N.S.	2.1	N.S.	N.S.
3-5.....	N.S.	2.3	N.S.	N.S.
6-10.....	N.S.	2.4	N.S.	N.S.
Over 10.....	N.S.	2.5	N.S.	N.S.
1960 Results				
Bear Unicorn X600.....	91.3	27.0	72.3	90.9
Cargill 939.....	88.3	30.6	91.2	85.3
Cargill 5929.....	103.6	30.2	93.2	89.3
DeKalb 400.....	91.4	28.8	81.4	79.7
DeKalb 414.....	101.3	27.1	89.9	90.4
DeKalb 427.....	98.9	28.2	94.0	94.4
DeKalb 440.....	110.3	29.5	91.0	93.4
DeKalb 441.....	97.7	29.5	93.4	84.3
DeKalb 444.....	112.9	28.7	94.3	88.8
DeKalb 459.....	89.6	28.7	70.1	79.2

(Table is continued on next page)

Table 13. — Increased Planting Rates — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
	bu.	perct.	perct.	perct.
1960 Results — DeKalb — concluded				
DeKalb 633.....	109.1	30.9	87.6	89.3
DeKalb 640.....	111.6	32.4	94.3	89.3
DeKalb A301.....	100.7	29.0	87.4	91.4
DeKalb A506 (Formerly X4008).....	109.1	29.1	96.0	87.3
DeKalb X72-076.....	100.0	26.4	83.6	89.3
Doubet D413.....	115.0	30.6	88.7	81.8
Hulting 242.....	109.8	28.9	97.7	90.4
Hulting 245.....	92.0	25.2	92.1	86.8
Illinois 1996 (Station).....	120.1	28.7	81.1	91.4
Illinois 3042 (Station).....	109.9	30.9	85.9	86.3
Illinois 3152 (Station).....	103.6	28.8	85.9	83.8
Illinois 3182A (Station).....	98.1	28.0	78.9	90.9
Illinois 3302A-1 (Station).....	101.0	26.9	90.1	89.8
Illinois 3315A (Station).....	89.6	30.2	89.8	77.2
Illinois 3348.....	121.6	31.3	75.9	91.9
Illinois Hy2xOh7 (Station).....	125.2	29.8	79.1	83.3
Illinois WF9xC103 (Station).....	101.2	29.9	97.8	68.6
Moews 48A.....	104.9	30.4	93.8	89.8
Moews 500A.....	100.7	31.5	92.6	89.8
Moews 505A.....	105.0	29.0	89.5	87.3
Moews CB65A.....	91.0	32.7	91.8	95.9
Muncy Chief H522.....	98.4	32.2	92.7	91.4
Muncy Chief H780.....	108.0	30.7	91.4	90.9
P.A.G. 234.....	112.8	27.7	90.6	92.4
P.A.G. 285.....	111.2	27.6	97.8	93.4
P.A.G. SX9 (formerly Exp. 15009).....	98.6	28.9	87.4	83.3
P.A.G. Exp. 15018.....	116.0	26.9	95.1	90.4
Pioneer 320.....	101.1	29.9	84.2	94.9
Pioneer 321 (formerly 4549).....	102.1	31.8	80.5	86.8
Pioneer 329.....	110.0	30.3	91.4	88.8
Pioneer 345.....	114.3	25.4	82.5	92.9
Pioneer 354.....	99.7	27.2	83.6	89.8
Pioneer 371.....	93.2	23.9	88.2	90.9
Pioneer 5536.....	106.2	29.6	89.2	92.9
Pioneer 6707.....	103.1	26.7	83.4	90.9
Pioneer 80201.....	106.7	32.2	88.6	81.8
Sieben S-340.....	95.0	27.5	89.4	84.3
Sieben S-440.....	98.8	31.2	85.4	88.8
Sieben S-440E.....	116.3	30.4	90.8	87.8
Sieben S-580.....	96.4	31.4	94.2	84.3
Steckley's Genetic Giant 1.....	74.2	26.3	78.4	86.8
Steckley's Genetic Giant 4.....	101.7	27.5	81.2	88.8
Steckley's Genetic Giant 12.....	106.4	30.5	88.3	81.8
Stewart S-94.....	100.4	28.2	94.4	90.4
Tomco 619.....	99.5	29.3	90.8	94.4
Wyffels W-600.....	106.3	30.6	88.8	94.4
Average of all entries.....	103.2	29.2	88.2	88.2
Number in range	Difference necessary for significance			
2.....	20.3	3.1	10.7	N.S.
3-5.....	22.6	3.5	11.9	N.S.
6-10.....	24.0	3.7	12.7	N.S.
11-20.....	25.1	3.9	13.3	N.S.
Over 20.....	25.6	4.0	13.5	N.S.

(Table is continued on next page)

Table 13. — Increased Planting Rates — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
EAST-CENTRAL ILLINOIS: Urbana — 24,000 plants per acre				
	bu.	perct.	perct.	perct.
Summary: 1959-1960				
Whisnand 850.....	104.8	20.6	74.9	86.8
Bear Unicorn X710.....	104.8	21.5	81.0	88.8
Illinois Hy2xOh7 (Station).....	104.1	20.2	79.2	87.3
P.A.G. Exp. 15017.....	103.5	17.3	99.1	84.3
Pioneer 319.....	101.2	20.6	89.0	91.3
P.A.G. 418.....	100.7	21.4	88.2	94.9
Mountjoy M-55.....	100.4	19.8	91.5	85.4
Illinois 1332 (Station).....	100.1	19.0	82.7	92.8
Pioneer 321 (formerly 4549).....	97.3	20.7	81.7	87.5
Whisnand 830.....	96.5	19.5	89.8	84.7
Bear OK69.....	94.9	21.1	73.0	89.4
Whisnand 852.....	94.9	21.9	76.5	86.1
DeKalb 805.....	94.8	20.1	93.5	91.9
Todd 635.....	94.8	20.8	88.3	84.1
Illinois 1996 (Station).....	94.8	20.9	81.8	89.6
P.A.G. SX9 (Exp. 15009).....	94.4	19.7	95.6	85.3
Steckley's Genetic Giant 12.....	94.3	20.2	90.5	80.0
DeKalb 633.....	93.4	20.3	87.6	84.8
McAllister 77A.....	92.5	19.9	96.7	87.7
McAllister E.X.A. 1.....	91.5	20.1	92.6	84.6
Moeys 524A.....	90.0	22.3	92.9	90.2
Doubet D413.....	89.7	21.6	80.4	86.0
Frey 892.....	89.6	20.6	85.2	87.4
DeKalb 803A.....	89.5	21.4	69.1	85.9
Illinois 1421 (Station).....	89.4	21.6	61.1	91.9
DeKalb 640.....	88.3	19.5	88.9	88.0
Pioneer 309B.....	88.2	24.8	70.8	88.0
Pioneer 302.....	88.0	22.5	83.8	94.1
Pioneer 309A.....	87.6	22.9	68.8	88.9
Pioneer 5625.....	81.8	21.6	94.3	90.9
Pioneer 312A.....	80.9	20.8	87.7	91.6
Average of all entries.....	94.1	20.8	84.4	88.1
Number in range	Difference necessary for significance			
2.....	N.S.	1.5	16.5	N.S.
3-5.....	N.S.	1.6	18.3	N.S.
6-10.....	N.S.	1.7	19.2	N.S.
Over 10.....	N.S.	1.8	19.8	N.S.
1960 Results				
Bear OK55.....	85.8	19.8	81.6	90.4
Bear OK69.....	85.7	21.5	56.9	93.9
Bear Unicorn X600.....	73.2	18.7	35.1	91.9
Bear Unicorn X710.....	91.5	21.3	68.8	94.4
Canterbury 420.....	94.1	19.5	78.0	91.9
Crib Filler 70.....	99.2	18.6	90.4	90.4
Crib Filler 116.....	96.1	19.9	67.0	87.8
Crib Filler 123.....	97.4	21.3	85.3	90.9
DeKalb 3x1.....	91.4	19.4	64.5	85.8
DeKalb 633.....	92.5	20.3	91.1	91.4

(Table is continued on next page)

Table 13. — Increased Planting Rates — continued

Entry	Total acre yield	Moisture in grain at harvest		Erect plants	Stand
	bu.	perct.	perct.	perct.	
1960 Results — Urbana — continued					
DeKalb 640.....	78.3	19.0	83.1	88.8	
DeKalb 803.....	86.2	20.1	84.2	94.4	
DeKalb 803A.....	85.8	21.6	66.2	85.8	
DeKalb 805.....	105.9	20.1	89.7	94.4	
DeKalb 869.....	89.7	19.9	80.5	90.4	
DeKalb 898A.....	86.4	18.9	65.3	93.9	
DeKalb A504.....	92.6	17.9	72.6	98.4	
DeKalb A703.....	94.2	20.8	72.7	92.4	
DeKalb X8034.....	86.9	19.6	75.0	94.9	
DeKalb X91-005.....	87.1	20.2	83.5	85.8	
Doubet D413.....	90.9	21.2	77.3	90.4	
Embro 44XE.....	101.6	22.0	87.9	95.9	
Frey 892.....	86.8	19.2	80.2	89.3	
Frey Exp. 60.....	97.4	20.4	70.5	84.8	
Illinois 1332 (Station).....	93.0	18.7	72.8	93.9	
Illinois 1421 (Station).....	79.7	21.9	50.0	93.9	
Illinois 1996 (Station).....	98.3	20.0	72.8	94.9	
Illinois 8006 (Station).....	91.3	19.8	50.5	97.9	
Illinois Ily2xOh7 (Station).....	94.3	19.6	73.3	86.8	
Indiana 851 (Station).....	92.4	21.0	87.0	81.3	
McAllister 77A.....	88.2	19.9	95.9	89.3	
McAllister E.X.A. 1.....	92.5	19.9	96.3	84.3	
Moews 524A.....	91.3	22.3	89.2	95.4	
Moews CB65A.....	88.0	20.3	83.2	90.4	
Moews CB69A.....	80.2	21.3	86.5	96.4	
Moews CB90A.....	88.9	20.3	65.9	91.9	
Monier 6-M-6.....	110.9	20.0	74.8	93.9	
Mountjoy M-55.....	102.1	19.3	89.3	90.4	
Null N-26.....	96.0	19.5	76.5	93.9	
P.A.G. 418.....	100.5	21.5	85.8	94.9	
P.A.G. 444.....	104.4	22.1	67.5	91.4	
P.A.G. SX9 (formerly Exp. 15009).....	83.8	19.4	94.2	92.9	
P.A.G. SX14 (formerly Exp. 15014).....	85.5	18.9	92.1	88.8	
P.A.G. SX19 (formerly Exp. 15019).....	118.0	20.6	65.7	90.4	
P.A.G. Exp. 15017.....	102.2	17.6	98.2	90.9	
Pioneer 302.....	88.7	23.3	80.3	95.4	
Pioneer 309A.....	96.8	22.5	42.9	92.9	
Pioneer 309B.....	102.1	24.6	60.0	89.3	
Pioneer 312A.....	96.7	20.1	80.8	95.4	
Pioneer 319 (formerly 2990).....	104.0	20.6	83.3	95.9	
Pioneer 321 (formerly 4549).....	92.6	20.8	78.5	93.9	
Pioneer 3756A.....	104.4	18.2	73.0	91.9	
Pioneer 5625.....	79.1	22.3	91.8	92.4	
Pioneer 6201.....	97.8	18.6	88.8	92.4	
Pioneer 6261.....	87.2	20.1	67.5	94.9	
Pioneer 80202.....	107.3	18.4	86.7	87.8	
Pioneer X23.....	98.1	20.0	86.9	88.3	
Steckley's Genetic Giant 12.....	87.7	18.7	86.9	82.3	
Todd 424.....	81.1	18.2	95.3	85.8	
Todd 635.....	96.8	20.5	84.4	89.8	
Todd 645.....	103.4	18.9	97.2	93.4	
Whisnand 830.....	101.9	18.8	88.7	93.4	
Whisnand 850.....	95.8	20.2	71.2	90.4	
Whisnand 852.....	89.2	21.3	69.9	88.8	
Average of all entries.....	93.3	20.2	78.0	91.4	
Number in range.....	Difference necessary for significance				
2.....	N.S.	2.0	17.1	N.S.	
3-5.....	N.S.	2.3	19.1	N.S.	
6-10.....	N.S.	2.4	20.3	N.S.	
11-20.....	N.S.	2.5	21.4	N.S.	
Over 20.....	N.S.	2.6	22.3	N.S.	

(Table is continued on next page)

Table 13. — Increased Planting Rates — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
WEST SOUTH-CENTRAL ILLINOIS: Greenfield, 20,000 plants per acre				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Summary: 1959-1960				
Pioneer 321 (formerly 4549).....	110.7	20.6	77.4	88.0
Illinois 1332 (Station).....	108.2	19.8	74.6	82.9
DeKalb 640.....	102.6	18.7	75.9	87.6
Doubet D413.....	102.2	20.2	76.9	83.9
Pioneer 312A.....	101.8	22.6	77.1	76.9
Whisnand 850.....	100.8	20.7	71.3	76.1
Illinois 1421 (Station).....	100.7	20.2	67.8	89.9
Moews CB69A.....	99.7	20.7	88.7	84.9
Moews CB60A.....	99.6	20.1	80.1	80.0
DeKalb 803A.....	99.6	21.9	63.3	85.1
Bear OK69.....	98.7	20.6	77.9	85.5
DeKalb 805.....	97.4	21.4	73.7	89.8
P.A.G. 415.....	96.9	20.4	79.2	84.0
Pioneer 309B.....	96.7	25.4	74.5	90.0
Whisnand 830.....	95.5	20.1	76.7	80.3
Whisnand 852.....	95.3	21.8	72.0	83.9
Illinois (Hy2xOh7) (Station).....	94.9	20.7	60.4	85.5
Moews CB96A.....	94.0	18.8	80.3	86.2
Moews 523.....	93.4	19.9	79.5	84.9
Pioneer 319.....	93.3	19.2	74.0	78.8
P.A.G. 444.....	91.6	23.3	73.3	83.3
Moews 525.....	91.2	21.0	83.3	80.5
Pioneer 302.....	89.3	24.0	72.8	88.6
DeKalb 869.....	88.8	21.8	75.8	88.5
Bear Unicorn X710.....	87.8	22.0	67.0	82.1
Pioneer 316.....	86.9	20.7	69.9	81.4
DeKalb 898A.....	79.7	20.3	61.9	83.4
Average of all entries.....	96.2	21.0	74.3	84.1
Number in range	Difference necessary for significance			
2.....	N.S.	1.8	N.S.	N.S.
3-5.....	N.S.	2.0	N.S.	N.S.
6-10.....	N.S.	2.1	N.S.	N.S.
Over 10.....	N.S.	2.2	N.S.	N.S.

(Table is concluded on next page)

Table 13. — Increased Planting Rates — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
	bu.	perct.	perct.	perct.
1960 Results — Greenfield				
Bear OK69.....	66.1	22.0	92.1	83.0
Bear Unicorn X710.....	84.4	23.1	95.0	76.3
DeKalb 3x4.....	92.7	22.0	94.0	82.4
DeKalb 640.....	102.0	20.6	96.2	81.2
DeKalb 803.....	94.3	23.1	98.6	76.9
DeKalb 803A.....	103.9	23.1	91.3	83.6
DeKalb 805.....	90.7	23.7	99.3	89.0
DeKalb 812.....	88.1	22.8	98.6	80.0
DeKalb 869.....	79.1	24.3	95.2	89.0
DeKalb 898A.....	78.1	21.8	88.8	76.9
DeKalb A504.....	91.7	21.0	96.3	82.4
DeKalb X8034.....	93.1	20.7	94.0	89.0
DeKalb X72-194.....	79.4	23.6	85.9	99.3
DeKalb X91-005.....	94.7	22.9	98.7	80.0
Doubet D413.....	97.1	21.1	91.4	81.2
Illinois 1332 (Station).....	100.1	22.7	97.5	81.2
Illinois 1421 (Station).....	97.4	20.7	91.8	93.9
Illinois Hy2xOh7 (Station).....	87.1	22.8	96.2	81.8
Moews 523.....	81.9	21.6	91.8	80.6
Moews 525.....	79.2	22.8	94.7	75.7
Moews 5097.....	53.5	21.5	99.1	76.9
Moews CB60A.....	94.0	21.0	93.5	65.4
Moews CB69A.....	89.9	22.7	99.1	73.9
Moews CB96A.....	78.4	21.7	96.8	82.4
P.A.G. 415.....	90.9	22.3	97.1	78.7
P.A.G. 444.....	87.4	25.2	93.1	79.3
P.A.G. SX14 (formerly Exp. 15014).....	80.3	23.4	100.0	72.7
P.A.G. SX19 (formerly Exp. 15019).....	117.2	22.5	93.3	90.9
Pioneer 302.....	79.6	25.8	91.4	87.2
Pioneer 309A.....	94.8	25.6	98.1	90.9
Pioneer 309B.....	79.8	27.2	89.7	86.0
Pioneer 312A.....	82.7	24.3	90.4	67.8
Pioneer 316.....	77.0	23.1	96.2	76.9
Pioneer 319 (formerly 2990).....	72.2	20.0	92.3	75.7
Pioneer 321 (formerly 4549).....	97.8	21.7	95.7	86.6
Pioneer 6122.....	82.4	24.4	100.0	78.7
Pioneer 6261.....	76.2	22.7	92.0	77.5
Pioneer 80203.....	90.8	21.0	94.0	83.6
Pioneer X23.....	89.9	24.7	98.4	81.8
Whisnand 830.....	86.8	21.8	90.0	78.7
Whisnand 850.....	92.1	21.5	96.5	70.3
Whisnand 852.....	94.2	24.0	93.9	81.2
Average of all entries.....	87.4	22.7	94.7	81.1
Number in range	Difference necessary for significance			
2.....	23.9	3.5	7.3	N.S.
3-5.....	26.7	3.9	8.0	N.S.
6-10.....	28.3	4.1	8.6	N.S.
11-20.....	29.6	4.3	9.0	N.S.
Over 20.....	29.8	4.3	9.0	N.S.

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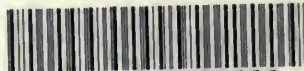




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